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<210> 1245

<211> 855

<212> DNA

<213> B.fragilis

<400> 1245

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<210> 1246

<211> 2427

<212> DNA

<213> B.fragilis

<400> 1246

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<210> 1247

<211> 501

<212> DNA

<213> B.fragilis

<400> 1247

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<210> 1248

<211> 2151

<212> DNA

<213> B.fragilis

<400> 1248

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<210> 1249

<211> 279

<212> DNA

<213> B. fragilis

<400> 1249

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aaaattttca	atgccgacct	atcagccact	ccgcaactgg	caatacagag	ggatatattt	180
atattccaaa	cactgatagg	ctgtcagagt	agcgacctat	accgcatgac	gcagagccga	240
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<210> 1250

<211> 1443

<212> DNA

<213> B. fragilis

<400> 1250

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<210> 1251

<211> 1068

<212> DNA

<213> B.fragilis

<400> 1251

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<210> 1252

<211> 906

<212> DNA

<213> B.fragilis

<400> 1252

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<210> 1253

<211> 1764
 <212> DNA
 <213> B.fragilis

<400> 1253
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<210> 1254
 <211> 666
 <212> DNA
 <213> B.fragilis

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<210> 1255
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 <212> DNA
 <213> B.fragilis

<400> 1255
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<210> 1256

<211> 2421

<212> DNA

<213> B.fragilis

<400> 1256
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aaggctgcct atgaagacgc actgacccaa atccaattag tcaaggtaga aagagagaaa 240
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<210> 1257

<211> 1572

<212> DNA

<213> B.fragilis

<400> 1257

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aacatcatta	acaatatccc	atacagagag	gatgagagtg	ctaaaacatt	tgaaaaacgc	180
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<210> 1258

<211> 1020

<212> DNA

<213> B.fragilis

<400> 1258

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gaaatgtttc	attcacgtag	tggggagaaa	ataggtatat	tttatagctc	aaaagatgat	180
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gaattttcca	gtaagatttt	gaaagaaaaa	tatccagact	taatttcaag	agatactatc	300
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<210> 1259

<211> 264

<212> DNA

<213> B.fragilis

<400> 1259

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cggtttgcca	cgtttgccgt	accgtttgcc	ggagggccga	acgccggatt	cttgccattat	180
ccgaaagctg	tacaatctca	gccgatttac	tggcctatat	caaccgttta	tccgattatt	240
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<210> 1260

<211> 621

<212> DNA

<213> B.fragilis

<400> 1260

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ccatggttaa	ccgtacgttg	tgacgacatg	cttttgccca	acggcaatca	tattccggag	180
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ggcgtatgtg	agaaagaaga	cgcttcacca	cttgtttcgg	cgcaacggga	gctacttgaa	360
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actcatacca	atctgacaca	ctgctttctg	gctactgatg	tgagacaaat	cgacacacaa	480
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<210> 1261

<211> 192

<212> DNA

<213> B.fragilis

<400> 1261

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atcattcctg	ttgtaaactg	gggtttcggg	aacgatagta	aggggtgttt	tgattttgtg	180
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<210> 1262

<211> 594

<212> DNA

<213> B.fragilis

<400> 1262

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agaagaaacc	tcaaacgctt	ccccagcgat	ttcatgttcg	aattaacaaa	agaagagttt	180
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<210> 1263

<211> 2439

<212> DNA

<213> B.fragilis

<400> 1263

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<210> 1264
 <211> 306
 <212> DNA
 <213> B.fragilis

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 cgaagtctgc aaccgcactt cgtgaagctg gattcgcctag taatcgcgca tcagccacgg 180
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<210> 1265
 <211> 1767
 <212> DNA
 <213> B.fragilis

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<210> 1266
 <211> 675
 <212> DNA
 <213> B.fragilis

<400> 1266
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<210> 1267

<211> 519

<212> DNA

<213> B.fragilis

<400> 1267

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<210> 1268

<211> 1140

<212> DNA

<213> B.fragilis

<400> 1268

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attgattttt	tactaatttc	cagcatattt	tccaatctgt	cactcaaaat	cttttttatt	180
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<210> 1269

<211> 468

<212> DNA

<213> B.fragilis

<400> 1269

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<210> 1270

<211> 315

<212> DNA

<213> B.fragilis

<400> 1270

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cagaaactct	accgctggat	gcgtaaaaac	accgcctga	cacaggcact	gtccgaagtc	240
aattacaaca	aataccgcca	cagcttcctt	aaacgggaag	tccggctgat	cgtgtattac	300
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<210> 1271

<211> 639

<212> DNA

<213> B.fragilis

<400> 1271

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<210> 1272

<211> 1449

<212> DNA

<213> B.fragilis

<400> 1272

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caattggctg	atattgccga	tctatatgcc	tccgaacgta	agtttaagga	agcccaggag	180
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<210> 1273

<211> 762

<212> DNA

<213> B.fragilis

<400> 1273

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gaagaactgg	gagaagccta	cgagaatgca	ggggaaaaga	ttatggagct	gattcagaaa	180
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gcattgcccc	ccatcataac	ggtgactgaa	gacgccatgc	gcaactgtcc	ccgtgccatg	660
cgcgaaacca	gcctggcact	cggagcttcg	cagtggcaga	ccatttataa	agtagtgatt	720
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<210> 1274

<211> 1275

<212> DNA

<213> B.fragilis

<400> 1274

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gagatcttcg	agcaggggat	agtcggcttt	gtgggtatag	tccgcccggc	agacataaac	240
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gtcgagcacg	atatagtcga	agtgcctttt	gaggatatcg	atggcttcca	ccaatgcctg	360
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1275

<210> 1275

<211> 189

<212> DNA

<213> B.fragilis

<400> 1275

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gaaaaccctg	tgaaactctg	tgtactctgt	ggtgagccac	cccatagtaa	tattctaaaa	180
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<210> 1276

<211> 462

<212> DNA

<213> B.fragilis

<400> 1276

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<210> 1277

<211> 789

<212> DNA

<213> B.fragilis

<400> 1277

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<210> 1278

<211> 450

<212> DNA

<213> B.fragilis

<400> 1278

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<210> 1279

<211> 1413

<212> DNA

<213> B.fragilis

<400> 1279

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<210> 1280

<211> 597

<212> DNA

<213> B.fragilis

<400> 1280

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accgtaagcg	gaagcgtgag	cacaaaagac	agaaagtatt	cagagtattt	gaagagaatg	180
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<210> 1281

<211> 651

<212> DNA

<213> B.fragilis

<400> 1281

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<210> 1282

<211> 492

<212> DNA

<213> B.fragilis

<400> 1282

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<210> 1283

<211> 858

<212> DNA

<213> B.fragilis

<400> 1283

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<210> 1284

<211> 444

<212> DNA

<213> B.fragilis

<400> 1284

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gtggaacatg	tggaggggaa	tctttatgtg	gctatctatt	cgtccaaaga	gaactttatg	180

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<210> 1285

<211> 2046

<212> DNA

<213> B.fragilis

<400> 1285

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<210> 1286

<211> 1200

<212> DNA

<213> B.fragilis

<400> 1286

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<210> 1287

<211> 1863

<212> DNA

<213> B.fragilis

<400> 1287

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<211> 969

<212> DNA

<213> B.fragilis

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<210> 1289

<211> 276

<212> DNA

<213> B.fragilis

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aagggtggaa aatttcccaa cgggcacgtc agcggcaata aagcgttaag ggagagaggc 180
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<210> 1290

<211> 630

<212> DNA

<213> B.fragilis

<400> 1290
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<210> 1291

<211> 864

<212> DNA

<213> B.fragilis

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<210> 1292

<211> 1071

<212> DNA

<213> B.fragilis

<400> 1292

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<210> 1293

<211> 1227

<212> DNA

<213> B.fragilis

<400> 1293

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<210> 1294

<211> 345

<212> DNA

<213> B.fragilis

<400> 1294

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<210> 1295

<211> 2820

<212> DNA

<213> B.fragilis

<400> 1295

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<210> 1296

<211> 1701

<212> DNA

<213> B.fragilis

<400> 1296

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<210> 1297

<211> 1926

<212> DNA

<213> B.fragilis

<400> 1297

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<210> 1298

<211> 1479

<212> DNA

<213> B.fragilis

<400> 1298

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<210> 1299

<211> 669

<212> DNA

<213> B.fragilis

<400> 1299

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<210> 1300

<211> 999

<212> DNA

<213> B.fragilis

<400> 1300

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cgtgctaaaa	gtgtgaatct	gaatttgcaa	ggctccgggtg	atttgaaagt	agcagggtgtt	600
accggaagcg	aatcagtgcc	gatgcttcag	ggatcgggtg	acttgaaagt	cgggaagtact	660
aatatcacat	cgactgtaac	ggcaaagttg	agtggctcgg	gtgatatgga	tgtattggat	720
attcgtgcca	atagcgtatc	cggacagttg	gatggctcag	gagacatgac	tttgtcgggt	780
tctgcttgta	atgccacgtt	ggttttgaac	aggtcgggag	aactcagtgcc	gcgaaaactgc	840
gatgctgaaa	atgtaacggc	tcattgtcaat	ggatcagggg	aaatctcctg	tacagccacg	900
aagacacttg	aaaccaatat	ccaaggtagt	ggagaaaattt	cttataaagg	aaatccgagt	960
atacgggtcga	caggtaagaa	tcattctgaac	agactctaa			999

<210> 1301

<211> 1509

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (12), (13), (14)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1301

ttgacgggtct	tnnnatggag	cgggtccttc	cagccccgtg	gtgaagacta	tgaacagtca	60
ccctattatc	tcaacctcaa	cggtaaattg	aaattccatt	gggtgaaaaa	tcctgatctc	120
cgtccgaaag	acttttataa	accctcattc	tataccggag	gctgggcaga	tatcaacgtt	180
ccgggaaact	gggagcgcca	gggatacgga	actgccatct	acgtaaatga	gacttatgaa	240
tttgatgaca	aaatgttcaa	ctttaagaag	aatccccctc	ttgtgcctta	taaggagaac	300
gaagtaggat	cttatcgccg	tactttcact	gtgcctgccg	gatggaaggg	ccgccgggta	360
gtactctgct	gcgaagggtg	aattttcttt	tattatgtgt	gggtgaacgg	acattttctc	420
ggttacaacc	aaggttccaa	gacagctgcc	gaatgggata	tcaccgatca	gttgaagaa	480
ggtgagaata	cgattgccct	cgaagtatat	cgctggagtt	caggttccta	tctggagtgt	540
caggatatgt	ggcgtctgag	tggatttgag	cgtgatgtgt	atctgtatag	tactcccaaa	600
cagtatatag	ccgattataa	ggtaaacgca	actcttgaaa	aggaacgtta	taaagatgg	660
attttcggac	tcgacgttac	ggtcggaggg	cctgcagacg	gtgtggcatc	cgtatcttat	720
acactgaacg	atccactcgg	acgtcctgta	ctgtcgggtg	agatgcctgt	caagtcgcgc	780
ggactgagta	acttcatcac	attcggagaa	cagcgcctga	aggatgtgaa	acgttggaat	840
gccgagcatc	ccaatctcta	caccctcggt	ttggagttga	aaaatgcagg	aggacagggt	900
accgaagtca	ccggttgtga	agtcggtttc	cgtacttcgg	agatcaaaga	ccggcggttc	960
tgcatacaacg	gtgtgcctgt	attgggtcaaa	ggaaccaatc	gtcatgaaca	ttcgcagttg	1020
gggcgtaccg	tcagcaaaga	gctcatggag	caagatatac	gtctgatgaa	actgtataat	1080
atcaataactg	tgcgcaactc	acattatccc	actgatccgt	attggtatcg	gctgtgcgat	1140
cgttacggac	tttatatgat	cgatgaagcg	aatatcgagt	cacacgggat	gggatatgga	1200
cccgttcgcg	ttgcaaaga	cagcaacttg	ctgacagcac	acatggatcg	tacacatcgc	1260
atgtatgaac	gttcgaaaaa	tcacctcgcc	atcgttatct	ggtcattggg	caacgaagcc	1320
cggaaacgga	atcaatttcg	agcgtaccta	cgattggctg	aaatcggtag	agaaaagccg	1380
tcccgtccag	tacgaacgtg	ccgagcagaa	ttacaatacc	gatatctatt	gtcgaatgta	1440
tcgcagtgtc	gacgaaatca	aggcctatct	ggcccagaaa	gatatctacc	gtccgttcat	1500
tctttgtga						1509

<210> 1302

<211> 354

<212> DNA

<213> B.fragilis

<400> 1302

cgaggaagaa	tgaacaact	gatacccgca	cttttcgccc	taggcgcagt	aatggccctc	60
atagggggccg	ctgtctttat	caccggatgg	gtctatgcac	cttatatata	taccatcggg	120
gcagggttttg	tcgcattggc	tcagggtgaat	actccgcttc	gggctaaaag	caagacgctc	180
cgccgactgc	gtatccagca	gatcttcggt	gcattagcac	tgatattgac	aggagctttt	240
atgttcacca	cacgtggcaa	tgaatggatt	gcctgcctta	ctatcgcagc	catactggaa	300
ttatacacgg	cattccgtat	tccgcaggaa	gaagaaaaag	aactttccaa	atag	354

<210> 1303

<211> 1068

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (231)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1303

gccttcagga	cctggtggcc	atztatacga	atgaagcggg	agagcgtatt	gtttcaggca	60
gcccgcacaa	accacttaaa	cttacttttt	ccattgtttc	gggcaaatac	cagtgcgaagt	120
tatccggtaa	gcagggtttat	atcgaggcct	atcacagtc	tttctaaagg	atttgcaaaa	180
ggttttctttt	gcattaaaaa	agaaaccgtg	gataagattc	agcaattttt	nttcgataag	240
tggggcattg	aggaaaggag	ataccaccag	ctcctttcca	ttctgttgcc	cggctctgaa	300
aacggcaacc	tagcgtcggg	ggaacaatat	ctggggggcc	agcatataga	ggcctatgcc	360
gccgtccctt	atgtagccga	ccgatgggaa	ctggatgacg	cctccctccc	tcaaggagcg	420
gtagtggtgc	ttacctgtga	aggcgtgctg	tatagctggg	agacctaccg	gctggagaga	480

tatatttccg	ccgcgatagc	caacgaccgc	atatcggttg	tcgttctgtt	tgtgaacggg	540
cccgagggtg	tgattacgcg	tgtggatgtc	ctggaaaagc	ttatacggca	gtcccccaaa	600
cccatagtgg	cctatatcac	gggcgtatgc	gcttcggcgc	atttctgggt	cgtttccgca	660
tgcgcacgca	gattcgtctc	ctcgcccatg	gatgaaatcg	gctcctgcgg	gggtgtctac	720
actttccaga	gcttcaaggga	gtattacgcg	caaattgggga	ttgagatcga	ggacatttac	780
cccgacagtg	cggacctgaa	gaaccgcgcc	tatcgcgaca	aggaagaaaa	gcaggatgac	840
accttaatta	aagagaacct	gtcgttttac	caccatcttt	ttgcacagac	catcgcccga	900
aatctgggag	tgaagtatga	cgcgaggat	ccccgtttca	gagggcagac	tttctttgcc	960
gatacggcac	tggccaaggg	gtatgtggat	gcctacggaa	gcctggagga	tgccatctg	1020
tgggtatccg	cccagaaaaac	cgtaaagcgg	gctaacaaga	tgatttaa		1068

<210> 1304

<211> 474

<212> DNA

<213> B.fragilis

<400> 1304

cggaataatg	cggagtattt	gaaaatcaat	aagttataca	atatgaaaac	aataaaaaga	60
ccctataccc	ccgtttgtga	tctggagttg	gttcgggtgg	agtgtatcag	tgattttgca	120
gtcatcctgc	cgcgcgcttt	tattgccgtg	cgggatgggt	cttatcgcat	tcctgttatt	180
ccgggatcat	tcactcccgg	agtcgaatcc	gagcaggcgg	attcaggaac	tatatattat	240
aatgtagggc	atacgttcga	ggttgccctt	acaggaccgg	acagccagga	gttgttatct	300
gccatgagcc	ttcaggacct	ggtggccatt	tatacgaatg	aagcggggaga	gcgtattgtt	360
tcaggcagcc	cgaaacacc	acttaaactt	actttttcca	ttgtttcggg	caaataccag	420
tgcaagttat	ccggttaagca	ggtttatatc	gaggcctatc	acagtccttt	ctaa	474

<210> 1305

<211> 825

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (752)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1305

caagatgatt	taataactcac	tataaaagta	aatttgttta	tgaaaaatta	tttcgcatca	60
ttcattccgg	ccgtaaaggc	cattctgggt	atcgaggcct	ggagtaagga	cgccgacaag	120
aaagacgcgt	tactggaaga	gcaaaagcag	aaacttaagg	cattgaattt	caatgacacc	180
tttatcaatg	gtttttgtga	ggcctgaag	gatggattcc	cggaggattc	ttcccgcaag	240
gacggggagt	cgggcacgaa	aggcagtgg	cctgacccca	atacctccaa	cgcagtaata	300
caaggattac	tggctgatat	gactgccaag	ctggttacgg	cccaggagga	aatcgctgtg	360
cttaccaaag	agaaagggga	actttcacag	gaggatccg	ccaaacaaac	agaaatcacc	420
ggttttgcaga	ccaagattca	gaccctttcc	ggccttgccg	agcaagacgg	ggggaaaggc	480
ttccagcatg	cacgtctgga	accggacgct	aaagacattg	tcattgaattg	ggatgacgaa	540
aaacaactgg	gcgccctctc	gggggagatg	ttcgcaatgg	gaccgcctta	taaccagcgc	600
ctgcgcgcaa	agatgcttta	ccgcaagggg	ttgacccgtc	aggtgcccac	tgccagttcg	660
atcgattact	ccgcctgaa	agaagacctg	ggagccttct	accgcatccc	ctggcaggag	720
cgtttacagt	ctttcctgac	cctgcttcc	tncatcgaga	gtattttccc	cgctgaattc	780
gggatatcag	gacctgggcg	tgcttataaa	catttggtgt	ggtga		825

<210> 1306

<211> 507

<212> DNA

<213> B.fragilis

<400> 1306

aaaaaacatc	aacttatgat	aaccacgaaa	ataacagtag	agccgcacct	ggctcaatat	60
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tgctacgcc	aatattcttc	cgatccggaa	ggcagcatgc	cgtccgctt	tgccgaccat	120
ctggatgtat	accatctggt	ttataacctg	ctggaaaaac	gcccgggttaa	ctgtccccgg	180
gataatggca	atcttgagat	cgtcttgccg	gaccgcaggc	aggggtgacgt	ccccgggtggc	240
aaatccccgg	agcgtttcaa	ctatctgggc	cagcgcagcc	aggggtatcat	caataagaag	300
ctaaagctga	tgatgcgcgc	cgagctccat	gactttattg	acgagaacaa	gcaccgggttc	360
ggtatcgacc	agcttcagtc	agtccactgc	tttatgaaga	agtactgcat	tgacagctta	420
agcgaggatg	ctcttctgaa	agactaccaa	cgttggcgtg	accgggtaag	acgttccagc	480
cttaagcggc	cctacaagaa	aaagtag				507

<210> 1307

<211> 618

<212> DNA

<213> B.fragilis

<400> 1307

aaaaagatgg	aagtagaact	agtaaaaacc	accctgcatg	cggttctgag	cccgtctcag	60
ttacagaaac	cctgtgtccg	aaagaaggag	ctgacgcctc	tccagatctc	gttaaaaact	120
ggatcgacgg	cctctcaatt	ggtggatgaa	tggggcgga	caattgcccc	actgaacatg	180
ggcgccccac	tttacgatgt	cgccgcaaac	ggagaaatcc	ctacattggc	tgatgtgggt	240
gtggtcttcg	gtaattcgac	atccgttcgg	attatcacia	gccatctgga	atccgttctg	300
aagtacgccg	gcgttgaatt	gagccgcgag	cagatggcgg	aaaccgcgct	ggcgatactt	360
tcaggatact	ggttcctgaa	cctggccgag	ctctgcattt	tctttaccgg	ccttaagaac	420
ggaagtgtg	ggcagcttgt	ctggggaaa	agcctaaaca	atcaggcggt	catggtcgcc	480
ctatcggatt	tctgcaagga	acgccgtgaa	gtgatcattc	gcaaagagac	agagcggatg	540
ggcccggggc	tgtggaaaaa	ggcttttcca	gaacggagga	ttttgccgcc	ggtatttgtgt	600
tgggcgtaca	gggtatag					618

<210> 1308

<211> 882

<212> DNA

<213> B.fragilis

<400> 1308

aagtcccgtg	gaaatcttcc	aaggctttgc	gtccggcttc	gaactccata	cctaatttgc	60
ctgctgtgta	atatctatcg	agataaagg	tattacatcg	agtgggatga	agatttgcct	120
tttgtggtgg	ctgacaccat	tggtagacc	gagggcgag	tagaggaggt	agtaaagaaa	180
gccgtgcaag	tgggattctt	cgacaagtca	ttgttcgacc	aatacaggat	ccttacctca	240
aacggatttc	aaaaccgctt	caaaagcgcc	gtttccagac	gtgaaggatt	tgagtatatt	300
cccgaatatc	tggtttctgt	atgcaataac	cccattcaat	cgaatttctg	tatacagaaa	360
ccctcctcaa	ccgagtttct	gtatgcagaa	accagcccca	accgagtttc	tgcagcaaaa	420
agtacacaaa	gtaaagtaaa	ggaaagaata	tctccccctc	ctcacgcgcg	tgaaggaggc	480
atttccggaa	tcagactttt	ttcagacaag	tctttaaccg	agtgttacgg	ggagctgaaa	540
gcgaatatcc	cctggatgga	gcaattctgc	atgaacatcc	gtctggatta	tccggatttt	600
accccgagc	tgttttatgg	ctttctggac	aggttcttcc	gtaaaactcca	gaatgaaggg	660
gaaatagtca	agtcacccaa	ggacgccatg	tcgcattttg	caaactgggt	gaatattgaa	720
cttgaaaaat	taaaaaaaga	tggaagtaga	actagtaaaa	accaccctgc	atgcggttct	780
gagcccgctc	cagttacaga	aaccctgtgt	ccgaaagaag	gagctgacgc	ctctccagat	840
ctcgttaaaa	actggatcga	cggcctctca	attgggtgat	ga		882

<210> 1309

<211> 807

<212> DNA

<213> B.fragilis

<400> 1309

aaaaacaata	taccaatgat	agtagcatgg	ttttcttgcg	gtgtaacatc	cgcagtcgct	60
tgtaagattg	cacttagtct	atacgatgac	gtgcagctct	attatattga	aactggctcc	120
gggcatccgg	acaacgctcg	ttttctatct	gattgtgaaa	gatggtagca	tcagcctatt	180
cacattatcc	gaagcgacaa	atacacttgc	gtagctgatg	tcctacggaa	aggttttatc	240

aatggtgcgc	atggtgctgc	ttgcactctt	gaacttaaaa	agaaagtccg	gtacaagttg	300
gaaaaggaac	ttggttcttg	ggacgggtcaa	gtttggggat	tcgattatga	acccaaagag	360
attaaccgag	ctatccgatt	aaagcagcag	taccagaca	caaagccact	gttcccgcctt	420
attgaaaagc	agattacgaa	gccggatgcc	atggggatag	tttggaagc	agggattgaa	480
atccctgcta	tgtacaagat	gggctacaat	aacaacaact	gcatcggttg	cgtgaaaggt	540
ggtatgggat	actggaataa	aatccggaag	gatttcccg	aagtgtttgc	tcaaattggcg	600
cagattgagc	gtgatgttgg	agctacctgt	ctgaaagata	aagatggg	tatcttcttg	660
gatgaactac	cgacatggcg	gggcgatcca	gtggaagaga	ttataccgga	ttgctcgctt	720
atctgccaaa	ttgaatttca	agagatcatc	gacaggcagg	taaaacgagt	tttgaaagga	780
gaaattagta	ttaacgatgt	agcttga				807

<210> 1310

<211> 189

<212> DNA

<213> B.fragilis

<400> 1310

accatgaaag	tcgtcatcta	ttggcagaag	aaatccaccg	tccaccatcg	ccgccggatc	60
cgtgacagat	tcaggcttcc	cgatggatg	accattaacg	gtgaaactcc	cgccgatgtg	120
aggccggagg	atatgaagga	actacagacc	ctggaagaaa	tgggttatat	taaattaaga	180
aacaagtaa						189

<210> 1311

<211> 348

<212> DNA

<213> B.fragilis

<400> 1311

agtgatcatt	cgcaaagaga	cagagcggat	gggccggggg	ctgtggaaaa	aggcttttcc	60
agaacggagg	atthttgccg	cggtattgtg	ttgggcgtac	aggttatagc	cgtgaaacgt	120
gaacggggcca	aggccgactt	taatgctttt	ttggagttht	tcccctgtct	gccatcagga	180
tatgaccgga	tagccttatg	gaaggcctgg	ggcggatgac	cggatgccat	caacttactc	240
ttcggcaaca	atcctcccg	agtggaagcg	gcgccggaat	ctgtcggcag	atacctgtgt	300
gattacaatg	tctatcaggc	ccgtgtaaag	gccaaagcct	ccttgtaa		348

<210> 1312

<211> 192

<212> DNA

<213> B.fragilis

<400> 1312

gaaacgagtt	cacatttcaa	cactttttca	ggagattcga	ccgtacgtcc	acatccccag	60
aacaataaca	cccaaaccgg	acaaaataac	aacaagcctt	tcagtctctt	cctgtctaata	120
aaattaaaag	aagcgctcat	aatcaacatt	ctgttctttt	accatcacat	tccaccacc	180
gagtctctgt	aa					192

<210> 1313

<211> 243

<212> DNA

<213> B.fragilis

<400> 1313

ataaaacaat	caattaaagt	atthttatcac	caagcaacca	cttattttaa	taaaatcaca	60
gactgtataa	acagctttcc	agcttatttt	ccttgtatat	ctccattatt	tcacatacct	120
ttgtctaaaa	ttaaggatatt	aaaacatccg	gatgttatat	atcaaaacac	ccggatgttt	180
tatatcagaa	catccggatg	ttatctatta	aaacatccgg	atgttttcag	acataactta	240
tag						243

<210> 1314

<211> 195
 <212> DNA
 <213> B.fragilis

<400> 1314
 cagttttttac cctgttttaa gcttaatttt cccccgtcac tgtctaaaaa atgccgtaaa 60
 cttgcatcat cgaaaaacaa cgaatattca caatttaaaa agcaacgtta tgaaaagttt 120
 aagcttcaga aaagatttaa ttggagttca ggaagagcta cttcgctttg catacaaact 180
 aacaaccgac cgtga 195

<210> 1315
 <211> 1467
 <212> DNA
 <213> B.fragilis

<400> 1315
 gtctataata cgaaagggaa taaaatagga ttttatatgg caacaacaga ttttatcgcc 60
 gctattgaac tgggttcac gaagatagcc ggtatagccg gaaagaagaa tagtgatgga 120
 agtatacagg tattagctta tgccagggag gattcgtctt ctttcatccg gaaaggagtg 180
 atctataatc tggataaaac ggcacaaagc ctgacttcaa tcatcaataa actggagggg 240
 gctctcaata actcaattgc caagatctat gtgggtatcg gcggacaatc gctccgtacg 300
 gtgcgcaatg tggtaagtcg tgatcttgaa gaagaaacca ttattttctca ggaactggtc 360
 gactcaatct gtgatgagaa cctcgagata cactgatcg atatggatat actggacgtt 420
 gctccacaag aatacaaaat aggaacaat cttcaagccg accctgtcgg ttagccgga 480
 agccacattg aagggcggtt tctgaatatt gtagcacgtg cttcgctcaa gaaaaatctg 540
 gaacgctgct tcgaacaggc taaaatagaa atagcagacc tattgatctc acctctgggt 600
 actgccgatg cagtactgac ggaaagtga agacgctccg gctgcgact gatcgacttt 660
 ggtgccgaca catctaccat ttccatttat aagaataata tcctccgctt cctcactgtg 720
 gtgccgttag gaggaacag tattacccat gacctcgtct ctcttcagat ggaagaagaa 780
 gaggccgaac gcctgaaaat cagatatggc aatgctttct acgaagagga agaaggcgaa 840
 gaacctgcta cttgccaat ggaagacgga aatagaacga tagagttagg taaactgaat 900
 aatatcatcg aggcacgtac cgaagagatt atcgcgaaac tatggaatca gattcaactt 960
 tcgggatatg acgacaaact tctggccgga ctcatcatca cggagggggc cgccaacctg 1020
 aaagacctgg acgaggttct acgtaaacgg agtaaaatag agaaggtgag aaacgcacgt 1080
 ttcgtacgca ataccatcca tgcagacgaa gacgttgtga agaaagacgg tacacaaaac 1140
 accttattcg gactgcttat tgcgggcaac gaaaactgtt gtttatttga aacacccgct 1200
 ccacagccgc atatacaacc tcagccccag cccgaaccgg tgaacatgtt tgaagaagac 1260
 gaaagtctga aggaacagga agccgctgcc cgcgctgcca agaagaagaa agaagaagaa 1320
 gagaaaaagc ggaaagaaga agaaaagcaa cgcaagctgg aagagaagaa aagaagggaa 1380
 gaagagagaa gaaataaacc taactggttt aaatcgactt tcgacaagct ctctaataa 1440
 attttttctg acgaagatat gaaataa 1467

<210> 1316
 <211> 1470
 <212> DNA
 <213> B.fragilis

<400> 1316
 aaacattgca cacctggctt taccggattc tgctgtcgtt attgcaaaaag aagttataaa 60
 attagcgcaa caatcatgaa tatagaaacg attcaatctg tatattttgt cggggcaggc 120
 ggtatcgga tgagtgcct cgtccgctat tttctttcta aaggaaaagt agtggcaggc 180
 tatgaccgta ctcccagtga actgactcaa catcttatag aagaaggagc acagatccat 240
 tacgaagaga atatcgatct cataccggag gcttgcaaag acaaagctac cacattggta 300
 gtectgacc ctgccgtacc tcaggaacat gccgaattaa ctacttccg tgataatgga 360
 ttcgaaatac agaaacgtgc acaagtactg ggcaccatta cccgttccag caaaggactt 420
 tgtgtagccg gcacacatgg taaaccact acctcaacga tgacagccca cttgtttcat 480
 caatcacatg taggttgtac tgcttttctg ggaggtattt ccaaaaatta cggaacgaat 540
 ctactactct cttcaaccag cccttatagc gtgattgaag cagacgaatt tgaccgttca 600
 ttccattgggt tgtctcctta tatgtctgtc attaccgcaa ccgatccgga tcactctggat 660

atztatggca	cgaacaggc	ttatctggaa	agctttgaac	actacaccac	actgattcag	720
cccgaggag	cactgattat	ccgcaaaggc	atctccctac	agccgaaagt	gaaagaagga	780
gtgaagatgt	atacttactc	acgtgacgag	ggagactttc	atgctgagaa	cattcgcac	840
ggaaacggag	aaatcttcat	tgacttcgta	gggctgaca	ttcgtatcga	caacattcag	900
ctaggagtac	cggtaagtat	aaatatagag	aatggtgtcg	ctgcatggc	acttgccac	960
cttaacggag	tcacacctga	agagatcaaa	cagggaatgg	ccagtttccg	gggtgtggac	1020
cgccggttcg	actttaaaat	caagaataac	cggattgtat	tcctgagtga	ctacgcacat	1080
catccatccg	agattaaaca	aagcgtgatg	tccatgcgtg	agttgtaccg	ggacaaaaag	1140
atcactgcgg	tttttcagcc	acacctctat	acccgtacc	gcgacttcta	caaagatttt	1200
gccgacagtc	tgtctttact	cgatgaagt	atactggtag	atatctatcc	ggcgcgcgag	1260
caacctattc	cgggagtaag	cagccggctg	atatatgaca	acctacgtcc	gggtattgaa	1320
aaaagcatgt	gcaagaaaga	agaaatactc	gatgtactga	aagcaaaaca	tatcgaagta	1380
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<210> 1317

<211> 765

<212> DNA

<213> B.fragilis

<400> 1317

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gtatgccgtg	acatggaatt	agtgatcaag	gatacactca	atgccggttt	cgttaccaag	180
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cgggtacaca	ccaaaacatt	agaaaaagag	ttggataaac	atccactcat	caatgaagct	300
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ctccacatca	tgagcagcaa	cggtgaaaac	tactatttgg	ataacaaagg	aaaaatgatg	420
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ggcaatcata	ttatctattt	gggtaaactg	gaacattttg	aggataaact	gaaacgcttg	660
aagacctttt	acgaaaaagg	gctcaaccag	gtgggatgga	ataaatattc	gcgtatcagc	720
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<210> 1318

<211> 2010

<212> DNA

<213> B.fragilis

<400> 1318

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atggatccgg	aaaaccgtat	gctgaaacag	gttaatatcg	acaacgcagc	agaagccgac	1920
tatatcttct	ccatgttgat	gggtgaagac	gtaggtccac	gccgcgagtt	cattgaagag	1980
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<210> 1319

<211> 1308

<212> DNA

<213> B.fragilis

<400> 1319

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<210> 1320

<211> 408

<212> DNA

<213> B.fragilis

<400> 1320

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aaagacaagg	gaaacgatta	tacggaaata	gaagaactgg	tacgggagaa	atgctcggca	180
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cctgtagccg	aagtacagac	cggcatgaag	gatgccgtag	aagcagctta	caagctggcg	300
aaaaagggag	aaacagtatt	gttgagtcca	tggtgcgcct	cctttgacct	tttcaagagc	360
tatgaagacc	gtggcgaaac	gtttaagaag	tatgtaagag	aattataa		408

<210> 1321
 <211> 201
 <212> DNA
 <213> B.fragilis

<400> 1321
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 ttgctctgtt attataatta g 201

<210> 1322
 <211> 546
 <212> DNA
 <213> B.fragilis

<400> 1322
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 gaagacatta aaaacgcaat gaaagcgaaa gataaagtag ctctcgaaac tctcagaaat 180
 gtaaaaaagt tcttttttggg agctaaaaca gctccgggag ctaatgacac ccttacagat 240
 gcagatgcac tgaaaatcgt gcaaaaactg gtaaaacaag gtaaggatgc cgcagaaata 300
 tatataggac aaggctcgtc ggacttagct gatgcagaat tggctcaggt gcaagttatg 360
 gaaacttatt tgcctaagca gatgagtgcc gaagaattgg aagccgcact gaaagaaatt 420
 attgctgaag taggtgctac cagcggcaaa gacatgggaa aagtaatggg agtcgcttct 480
 aaaaaactgg caggattggc cgaaggacgc gcatctcag ctaaagtaaa agagttattg 540
 ggataa 546

<210> 1323
 <211> 204
 <212> DNA
 <213> B.fragilis

<400> 1323
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 aaggcgggtca tagtcccgtt gaaactccga acggttttcc tgacgctctt cgtgaaactc 180
 ttccatgccg aaacgcttag ctga 204

<210> 1324
 <211> 1032
 <212> DNA
 <213> B.fragilis

<400> 1324
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 aaagaagaag aaacaacata tcacgtaccg gtactgctaa aagaaagtgt agatgccatg 180
 aacatatctc ccgacgggac ttacgtagat gtcacctttg gcggtggcgg acattcccgc 240
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 gccgagcgca acattgtaaa tgatccgcat tttacttttg tacgaagcaa ctttcgttac 360
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 ggcgtctctt cccaccactt tgacgacagc gaacggggat tctctttccg ctttgacggg 480
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 tttcttgaaa tcataaagcc tctcttcggc cgcgaaagag agaaaaaaga gtttagctaaa 720
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γ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
δ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
ϵ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
ζ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
η	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
θ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
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κ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
λ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
μ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
ν	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
ξ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
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π	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
ρ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
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ω	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
Ω	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
Θ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
Υ	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
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Π	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
\Rho	10^{-3}	0.001	10^{-3}	0.001	10^{-3}	0.001
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Φ						

<400> 1327

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<210> 1328

<211> 987

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (928), (942)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1328

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gaagtagtaa	ttaccgaccc	gatcgctntc	aatatggaac	angaacaagt	ggccctgacc	960
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<210> 1329

<211> 1359

<212> DNA

<213> B.fragilis

<400> 1329

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cgggactatg	accgccttgt	cttctccgcc	cctttcagaa	ggcttcagaa	caaaacccaa	180
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cagctgctca	ttaaccgcgt	atcgggacaa	tataatataa	aagcgctgc	actctacgag	1260
agagtacagg	cggtgctcga	ttatatctcg	ggcatgaccg	atgtctttgc	cctggatctt	1320
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<210> 1330

<211> 186

<212> DNA

<213> B.fragilis

<400> 1330

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ggacgcaaga	ttttcattct	tgaaaggggg	gttcgattcc	cccacgggct	acaattaaaa	180
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<210> 1331

<211> 627

<212> DNA

<213> B.fragilis

<400> 1331

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acaggagaac	ggttgggcat	attagaaatg	caaaaagagg	atagagtgtg	tgaataacag	180
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aaaatagggtg	atttaataat	agacaatccc	aaattagtat	ttaggttttc	cgaacttaat	300
tgtgataaat	gtattgatgc	tcaaatacgt	aatttgaatg	agtatgttga	ttcaatagaa	360
cttcaaaaata	ttatttttatt	aacagatttc	caaagtcttg	aatatatgcg	tagcttttcag	420
aaatcaaata	aagtgaaatt	tgctattttat	aacatggagg	cggagatcga	ttctgttttg	480
gtgaatattg	atttacctta	tttttttgtt	ttgactcctc	aagaagaacg	gattcaatgt	540
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<210> 1332

<211> 423

<212> DNA

<213> B.fragilis

<400> 1332

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tgctgcgttg	tcgatattaa	cctgttttcag	catacggttt	tccggatcca	tagtcgtttc	180
ccacaactgc	tgggcattca	tctcacccaa	acctttgtag	cgctgtgtat	ggattgcatt	240
ttccgaaccg	ccaccataag	tgctcgataaa	cttctggcgt	tgcgcatctg	tccagcaata	300
ctcttctatt	tttccttttt	tgcaaaggta	gagcggggga	gtggcaatgt	acagatagcc	360
attctggatg	atctgtggca	tatagcggaa	gaaaaaagtc	atgatcagtg	tgctgatgtg	420
tga						423

<210> 1333

<211> 342

<212> DNA

<213> B.fragilis

<400> 1333

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tttatgccct	tgtctgtcgt	gaaggttttt	cataatcatt	ccgaagaaac	ttcgataacc	120
tgtacagacg	cacattccgg	aaagtcccat	cacacatgtg	agacttgtcc	catctgtcag	180
tttatgcttt	ctccatttat	tgagaccctt	tctactcttc	tgacttatac	gcccctttac	240
gtaaaatggg	agagtggaac	ttttcaggat	aaaaagcttt	ctatcgcttt	ctatccgcat	300
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<210> 1334

<211> 2643

<212> DNA

<213> B.fragilis

<400> 1334

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gccgatacga	taccggccga	tactgcatcg	accgatttta	atagtgagat	tgatatccgg	180
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cgcacatgat	atgccaatct	gaagttgagg	ctttcgctga	caaaggggat	ttctacttta	300
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aagatagcta	cttcttttacg	gacagatatt	atgggtggaca	ggcagaccgc	cgtctggaaa	420
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cgggataccg	tggcgaagac	aatcggtagt	gatctggaat	atggtttgca	tgcccccttcg	540
atggagacgg	tggtgcggat	gattccgaaa	tcgtatgtga	aggacactaa	agtctcggct	600
aaaggtgaag	ttaccggttag	cggtaggggtg	aggggtgtgt	atggtgacaa	aaagttgcct	660
gccgtttcac	tcaagatcgg	tatcaaagag	gcttcggcac	aatataaggg	tttaccatac	720
ggtattgatg	aggtaacggc	agattttgat	gcgtatgtcg	acttgatgcg	tcatcagcct	780
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gatttcgatt	ttctaggtaa	tgctactttc	cgtttccgtg	ataacgaaac	cttgcaggcg	1140
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ttaa						2643

<210> 1335
 <211> 654
 <212> DNA
 <213> B.fragilis

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 gaaaaagata ttacgtggct ggtaggaaag aaattaaata gtgtcgattc tattttgcct 300
 aatgaattat tgcataaaaa agttttgttc ttgtttaatt atcatgactg cggacttctg 360
 attaaagacgg gatttgctgt tgtcaatagt atagacaggc agaagggtaa ggaatatgta 420
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 ccaatgctat tgcgtgtaga tactgataat cggattcttg aagcattgat tccaactacc 600
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<210> 1336
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 <212> DNA
 <213> B.fragilis

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 aatcagatat acattattac ttatcaggac tctcctaata ttatgcggga gatcgggcgt 180
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 gaaat'ttttag gaggtatctg gtatattctg gggacggatg tgcgttttga cgagcatggt 360
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 ctgcctacca ctattgaact cgggcgttcg ttcgttacat tgg'aatatca gtcaacc'cgt 480
 gccgggagca aggggctatt tgctttggat aatctgtggg acggattggg ggcattgacg 540
 gttgtgatgc caaatgtaaa atatttcttt ggtaaagt'aa cgatgtatcc cagttaccac 600
 cgtcagggaa gagacatgat cttttacttc ctgaagaagc attttggaga taaagacgga 660
 cttatcactc cgatgaaacc gctggaaatg gagacggatg aggctgaact ggcaaggatt 720
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 gg'ttttaata ttccaccgtt agtgaatgct tatatgagtc tcagtccgac catg'cgtatg 840
 tttggtacgg ctatcaatta cgg'tttt'gga gatgtagaag agaccgggat cctgattgcc 900
 gttgacgaaa tccttgaaga gaaacggatg cgtcatatcg aatcgtt'cgt gaaaaacgat 960
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<210> 1337
 <211> 1461
 <212> DNA
 <213> B.fragilis

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 ggtgccacgg ccattctttg tgaagagtta cctgcagaac ttgtagaagg agttacctac 240
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 ccgagctcaa aattggaact ggtaggcgtt accggaacaa acggaaagac aacgattgcc 360
 acctattat ataatacgtt ccgatacttc ggc'tataaag tgggattaat ctccacggta 420
 tgcaattata tagatgatga agccattcct accgaacata ccactcccga cccgatcaca 480
 ttgaatcgtt tattgggacg catggcggac gaagg'ttgca aatatgtttt catggagg'tc 540

1335 1336 1337
 654 1044 1461
 DNA
 B.fragilis

agttcacact	ccatcgaca	aaaaagaatc	agcggactga	aatttgccgg	cggcattctc	600
accaacctga	cacgcgatca	tctggactat	cataaaacag	tagagaacta	cctgaaagca	660
aagaagaagt	tcttcgacga	tatgcctaag	aactctttca	gtctgaccaa	cctggacgat	720
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<210> 1338

<211> 249

<212> DNA

<213> B.fragilis

<400> 1338

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gagccgggat	gcagcgtaaa	gtttacgaag	cccgatcagt	tgttccacga	atcaaaaatc	180
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<210> 1339

<211> 1788

<212> DNA

<213> B.fragilis

<400> 1339

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gttgccgttc	aggaaataaa	tctcactccg	gagcagcaac	gtaaatatga	ctattttctt	180
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cattgcctgg	ccatcaatcc	gaccggttcg	gcagctctat	acgagattgc	ccagtattat	300
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cctgataatt	attggtatag	tcaggcattg	gccggtctgt	accaacagca	ggatcagaaa	420
gaaaaagcga	taggaatact	cgaaaagatg	gcaacgcgtt	ttcccgttaa	acaagatccg	480
ttgttcaacc	tgctcgattt	atataatcag	aaggaagact	atggtaaagt	tattttctacc	540
ctaaaccgta	tagaggaaaa	aacgggaaaag	aatgagcaga	tcaccatgga	gaagtttcgt	600
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gagtatccga	tggactaccg	ctatcagggtg	attctgggag	atgtctatat	gcagaatggc	720
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caacagatgg	atactttgct	actgaaccgg	aaagttccct	cggatacaaa	ggtgaatgtg	900
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ctctttgacc	ggatgatgca	gatggatatg	gatgatgtgc	aaattccgat	gctttatgca	1020
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tatgcttatt	atttatcggt	agagcgcaga	gatctcgata	aggcagagga	gatgagctat	1500
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<210> 1340

<211> 1170

<212> DNA

<213> B.fragilis

<400> 1340

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tccattgcaa	acgccataaa	agagttacgt	cccgatgcac	aaatcctgtt	tgtaggagcc	180
gaaggcagaa	tggaaatgca	acgagtaccg	gatgcaggct	atcagattat	cggattgcct	240
gtagcaggat	tcgatcgtaa	acatctgtgg	aaaaatgtcg	ccgtattatt	aaaattggta	300
cgcagccaat	ggaaagcacg	aaatattatc	cggcaattcc	gccctcaggt	agcagtagga	360
gtaggcggat	atgcaagcgg	tcctacttta	aaaatggcgg	gaatgatggg	agtacctact	420
ttaatacaag	agcagaattc	atacgccgga	gtcaccaata	aactattggc	acagaaagca	480
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ggggcacgca	ccatcaataa	cacattgatt	gcgggactgc	aactgattcg	ccggactaca	720
gacgtgcagt	tcactctggca	aacgggaaaa	atttatcatc	aacaagtgcg	agaagctgta	780
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acaaaaaatg	ctttggcttt	ggtaataaaa	caagcagcca	tctacgtaaa	ggatgcggaa	1020
gcagaaaaca	aactattacc	ggtagcactg	gaaacgatcg	ccaatgccga	gaagctgagc	1080
gaactcagtg	aaaacattgc	acacctggct	ttaccggatt	ctgctgtcgt	tattgcaaaa	1140
gaagttataa	aattagcgca	acaatcatga				1170

<210> 1341

<211> 621

<212> DNA

<213> B.fragilis

<400> 1341

acagaaaata	gaaaaaaaga	aatacattgc	agaatgaaag	gaagtaagtt	gaaacaaact	60
gtcattaaac	agtcgtacct	gctgcctttg	ctacttatgg	tagttctgct	tgcaggttgt	120
aaaacatcaa	aggtgggtcaa	gactacaccg	gtagaaccgg	cttatctgtc	atctaaactg	180
caactgacag	tgcccaacaa	aaacggcagt	atgaccgtaa	gcggcagcat	gaagatgaaa	240
agcggatgaac	ggatccagtt	atctgtcctg	atgccgggat	tccgctcgga	agtaatgcgt	300
atggaagtta	ccccggatga	ggtgttactg	attgaccgta	tgaataaacg	ttatgtgcgg	360
gcaaccgctg	atgagctaaa	gggaatactg	cccgagaatg	ctgattttga	ccggttggag	420
aaacttttgt	tcaaagcttc	acttccgggt	gagaaaaagg	agctcacagg	acgtgaattg	480
ggaattccat	ctctggaaaa	ggcaaagggt	agactatctg	atttctcgac	tgccgaattc	540
gaattaatac	ctactgaggt	atcgtccaga	tacactcaag	tagcattgga	ggatctgcta	600
aaaatgctga	tccaactatg	a				621

<210> 1342

<211> 453

<212> DNA

<213> B.fragilis

<400> 1342

atagtaaaca	gactgaatat	gaacatacaa	gtaatcaata	aatcgaagca	cccgttcccc	60
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gcatacgcga	ccgaactttc	tgcaggaatg	gatatccgcg	ctaataatttc	cgaacctatc	120
tcttttggtc	ccatgcaacg	atgcctgggt	cctacaggac	tgttcatagc	tctgccacag	180
ggatttgaag	cgcaaattcg	tcctcggagc	ggactgggctt	tgaagaaagg	gattactgta	240
ctgaattctc	ccggtacat	cgatgcagat	taccgtgggtg	agatttgcac	catcctggta	300
aatcttttcg	ccgagacgtt	tgtcatagaa	gatggggagc	gtattgcaca	gatggtcatt	360
gcgcgccacg	aacaagctgt	atggaaagaa	gttgaggtac	tggacgaaac	ggaacgcggc	420
gcgggtgggt	tcggacatac	cggaagagga	tag			453

<210> 1343

<211> 2172

<212> DNA

<213> B.fragilis

<400> 1343

gacgatttaa	gtatgcgtat	cggatttttt	tcgggtatgc	tgggaggggt	atgtttaatc	60
tctaccttgc	atgctcaaga	gcccgaattca	ctgaaagccg	tgctccttacc	tgaagtgggtg	120
gtgacggaga	gttatcagca	tctgaagaat	aagaactcca	catggcgtat	ggaggtggta	180
gggaaagagt	ttctgcgtga	acacttcaca	gggaacttga	tacaaactct	tggaacactt	240
ccgggagtag	attccatgga	tatcgggttcg	ggcttttcta	aacctatgat	tcgcggaatg	300
ggattcaacc	ggatttcggt	tgtagaaaat	gggattaagc	aggaggggaca	acaatgggga	360
gccgatcatg	gactcgagct	ggatgcattt	aatgccgggtc	aggtaagtag	tcgcaaagggt	420
cctgcttcct	tattgtatgg	tagtgatgca	atgggagggg	ctattgaact	tggtccatta	480
ccattgcctg	cgggtaaccg	gttattcgggt	gaagcgagct	tggtggggaa	atccgtcaac	540
ggtacattgg	gaggttcaat	gatgcttggg	atcaaaaaag	atgcttggtg	tacctgggca	600
aggtattcgg	aacaacactt	tggggattat	cgtattccga	cggatactat	tgtctacctc	660
acccaacgta	tgctgtttta	tcaccgaagg	cttaaaaaata	cagccgggtt	tgagagagat	720
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caggatgacg	gggacagccg	taacatagaa	cttccgtaca	gccaggtgaa	tcacttgaaa	900
gtttctaccc	ggcagagcct	tttgtacgat	aaatgggcgc	tgacgtggga	tattggcttt	960
cagaagaatc	atcgcgagga	gtggagccgg	tttcatactc	attatgatgc	tcagcctgta	1020
ccggacaaag	atccggataa	ggaactggct	tttacgttga	acacttatag	ttctgctggt	1080
aagctgaagt	tggttgcttc	tgcctgatgg	caacacacgg	caggatggga	tgtacaatat	1140
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gttcgtcgcc	attttggcga	ttattccgggt	tactgggggt	tggtatggag	tccttccgga	1440
ggtcatcttc	ttcaggtaaa	tgtcggccat	agcttccgggt	tgccgggagc	caatgaattg	1500
gcacgaacg	gagttcatca	cggcactttc	cggcatgaac	agggagatgc	agcgcttgct	1560
tccgaacgcg	gttggcagtt	tgatgcttca	tatacctatg	aaaatgggcc	gttgctcggtg	1620
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ggagaatatg	tctatactta	taattgcgat	gaacatatcc	ctctaagttt	ctcgctcct	1860
gcttcaactc	gcaatacact	gacgtggcga	tataaagagt	tcagcatcta	tggtgaggta	1920
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ttgttgaatg	ccggagtatc	tgccaacctc	cggatagggg	gtatatgggc	cgagtgact	2040
ttatcagccc	ggaatttatc	cggtgccaaa	tactttaatc	atcttagttt	ttaccggaaa	2100
gtagaaatcc	ccgaaccggg	acggaacttt	cagatttttaa	ttaaagtacc	atttaaaagt	2160
ttattaaaat	ga					2172

<210> 1344

<211> 357

<212> DNA

<213> B.fragilis

<400> 1344

aacaagagaa	gtgaaatgga	agataaagaa	gcaaaaaaga	agaaaagcaa	ctccctgaaa	60
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agtattctgg	gaggtgatat	tctggctacc	gacttttttc	gccgccagac	taaattgctg	120
gtactgatta	tgggtgctcat	cattttctac	attcataatc	gctacgcaag	ccagcaacag	180
caaatcgaaa	tagataagtt	gaaaaaagaa	ctgatcgaca	taaaatatga	tgactgaca	240
cgaagtccg	aattgatgga	aaaaagccgt	cagtcgcgga	tagaggatta	tatatcgacc	300
aaagaaagt	acttgcagac	atcaacccat	ccaccttatt	taatcagtac	gaaatag	357

<210> 1345

<211> 597

<212> DNA

<213> B.fragilis

<400> 1345

agcttaattt	tccccgtca	ctgtctaaaa	aatgccgtaa	acttgcac	tcgaaaaaca	60
acgaatat	acaattttaa	aagcaacgtt	atgaaaagt	taagcttcag	aaaagattta	120
attggagttc	aggaagagct	acttcgcttt	gcatacaaac	taacaaccga	ccgtgaagaa	180
gcaaacgatt	tgttgcagga	aacctctctt	aaagcggttag	ataacgaaga	taaatatact	240
cccgcacta	actttaaagg	atggatgtac	accatcatgc	gcaacatctt	catcaataat	300
tatcgcaaag	tagtacgca	tcagactttt	gtagatcaga	ccgataatct	ttatcatctg	360
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caccgcatcg	tcaattcatt	acccaaagaa	tataaagtg	ctttctctat	gcacgtttcc	480
ggattcaaat	accgtgaaat	agctgagaaa	ctggacttgc	cgctcgggac	agtaaagagc	540
cgtatctttt	tcacccgcca	gcgtttacag	gaagaactga	aagacttttag	acaatag	597

<210> 1346

<211> 507

<212> DNA

<213> B.fragilis

<400> 1346

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tccatctctt	tagcgatacg	ggcgatgacg	ggagcggtc	cggttccggt	tcctccaccc	120
attccggcag	tgataaacac	catttttgga	ccatcggtca	gcagagtttt	gatgtcttcg	180
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gtgatggaac	gtcccagttg	cagtttgacc	ggtacgggag	actcagccaa	tgcttggttg	300
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gcgttacctc	caccacctcc	tacaccaatc	actttgatga	ttttcgggtga	atctgtaggg	420
aaatcgaaat	gtactatctc	gtccatatta	tattgtatta	tgaattatca	ctttattttca	480
tatcttcgtc	agaaaaaatt	tcattag				507

<210> 1347

<211> 369

<212> DNA

<213> B.fragilis

<400> 1347

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ggagcggcgg	atggtagtat	tacttgctgg	ggagctgaat	attgcaaacg	aggaattaaa	300
aaggaaggta	tagttattat	tacagagact	cgggtgggtg	aatgtgatgg	taaaagaaca	360
gaatgttga						369

<210> 1348

<211> 1245

<212> DNA

<213> B.fragilis

<400> 1348

<210> 1351
 <211> 1059
 <212> DNA
 <213> B.fragilis

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 ggcttggtgt tattttgtcc ggtttgggtg ttattgttct ggggatgtgg acgtacggtc 120
 gaatctcctg aaaaagtgtt gaaatgtgaa ctcgtttctt acataaagag ttatcctgat 180
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<210> 1352
 <211> 483
 <212> DNA
 <213> B.fragilis

<400> 1352
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 tga 483

<210> 1353
 <211> 2127
 <212> DNA
 <213> B.fragilis

<400> 1353
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<210> 1354

<211> 1131

<212> DNA

<213> B.fragilis

<400> 1354

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acctcggttc	gtgcattgat	ggctatcatc	ctggcactgc	ttatttccag	tatctgggga	180
gataagttca	tcaatctgct	gaaacggaaa	cagatcacccg	agacgcagcg	tgacgccaaa	240
atcgatccgt	tggcgctcaa	taaagtagga	gtgcccagca	tgggggggtgt	catcattatc	300
gtagcaatcc	tgatcccctg	tctgttattg	ggaaaactgc	ataatatcta	tatgatactg	360
atgctgatca	ccaccgtctg	gctgggatct	ttaggatttg	cagacgatta	tataaagata	420
ttcaaaaagg	ataaagaagg	gctccacggg	aaattcaaaa	ttatcgggtca	ggtgggtctc	480
ggcttaattg	tcggactgac	tctatatctg	agtccggacg	tagtgattcg	tgaaaacata	540
gaagttcaga	aatcggaana	cgaaatcgaa	gtaatacatg	gcactcacga	tctgaaatct	600
acccagacca	cgattcctgt	cttcaaaagt	aacaacctgg	agtatgccga	ccttgtaggc	660
tttatgggag	aacacgctca	aacagccgga	tggattttgt	ttgtcattat	caccatcttt	720
gtcgtgacag	ccgtgtcaaa	cggagccaac	ctgaatgatg	gtatggatgg	tatggcagca	780
ggcaattccg	ccatcatcgg	actaacgctg	ggcatattgg	cttatgtatc	gagccacatc	840
gagtttgagg	gttacctgaa	tatcatgtat	attcccggaa	gtgaggaact	ggtaatcttt	900
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gtattcatgg	gggatacggg	cagtctgacc	attggaggta	tcattgcggg	atttgccatt	1020
attattcaca	aagaattgct	aatcccgaat	ctctgcggta	tatttctggg	tgaaaaccgt	1080
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<210> 1355

<211> 270

<212> DNA

<213> B.fragilis

<400> 1355

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<210> 1356
<211> 861
<212> DNA
<213> B.fragilis
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<210> 1357
<211> 216
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ctttctgatt ttgctttgcg gaagaaaggg atttacggca tttacatgt catcatcctg      180
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ctgctttccc	tggtttctggt	catcagcadc	tcgatagata	cgtttaaggg	tatccctttt	240
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ttcattctcg	agttgtttct	ttcgaaaaat	aagtggcact	atcttagtac	gcatttcac	360
tttttggtgg	tgccgatacc	ttaccagaat	attatatacct	atatgggatg	gactttttca	420
cccgaagtga	cttataatgat	togttttggt	cctttgggtc	gaggcggcta	tgcatgggt	480
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atgttgcttg	ctactgttta	cctttcaagc	ctggcctttt	ttgtactcga	acacaaggtc	600
aatccccctgg	tgaccgggta	cggagatgcg	ccttggtggg	cggttatgga	tgtgactacg	660
gtaggttcca	atattattgc	tgtcaccgtg	acgggacgtg	tactttcggg	gttgctggcg	720
gcactgggta	tgatgatgtt	cccgatcttt	acggtttatg	tcaccagcct	gattcaaaaa	780
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aaataa						846

<210> 1360

<211> 978

<212> DNA

<213> B.fragilis

<400> 1360

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ttgcacccca	aaataaggag	aatgaaccac	gtcaccactt	atatccgcca	ggctttacac	180
gatattttatc	caccgggaga	actcaggagt	ctcacaaaaa	tcatttggtg	tgatctgctg	240
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tgtgatattag	aaagcattgt	cgaacgattg	aagaaaaacg	agccgatcca	atatattcag	360
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gctgtggtca	ccgcatggga	cgtatcggaa	gaggctcttg	ccattgccgg	ggagaataat	600
cggaattga	aggccggagt	gcattttgag	aaaatggatg	ttctgtctgc	agaacctgtt	660
ggtgatgac	aatatgatat	gattgtcagt	aatcctcctt	atgttacaga	gagcgaaaaa	720
aacgaaatgg	aacccaatgt	gttagattgg	gagccagac	tggccctttt	tgtgccggac	780
aatgatccgt	tgcgctttta	tcggcgtatc	gcactcttag	gaagaaaaat	gttacgcctg	840
cacggcaggc	tctattttga	gatcaatcgg	gcttatgggtg	aagagggtct	ccaaatgctt	900
cacgaacaag	ggtacgaaga	actccgtttg	ataaaagata	tatcgggtaa	tgatcgaatt	960
gtaaccgcca	aacgatga					978

<210> 1361

<211> 576

<212> DNA

<213> B.fragilis

<400> 1361

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gcggaagaat	atcgctcgc	agaaacggga	gattacgaca	tttcagttag	tatgctgcaa	180
aaaatcgcac	gtaaatacgg	aatcgctctc	gacgctctga	tggttgccga	agagcccaag	240
atgagtagtt	acttcctgac	ccgtgcagga	aaaggaacca	gtattgagcg	cacaaaggct	300
tataaatacc	agtcactggc	agcaggtttt	atgaaccgga	atgccgaccc	gttcattgta	360
actgtcgaac	ccaaacccga	catcgagccg	atacactata	acagtcatag	cggacaggaa	420
ttcaacctgg	tacttgaagg	ccgcatgatg	atcagtatag	atggaaaaga	cttgatatta	480
aacgaagggg	acagcctgta	cttcaattca	aaactacctc	atggaatgaa	agcactcgac	540
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<210> 1362

<211> 185

<212> DNA

<213> B.fragilis

<220>
 <221> unsure
 <222> (166), (167), (168), (170), (172)
 <223> Identity of nucleotide sequences at the above locations are unknown.

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 aaagacagaa caacaactaa cgaaatgtcc tataaagaac aaatagattt aaaccggata 120
 cctaagcatg tagtcgtcac cgccgagtg c aatgcatgct ccattnnncn cnggacctgcc 180
 tcccc 185

<210> 1363
 <211> 927
 <212> DNA
 <213> B.fragilis

<400> 1363
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 gaggtagtc aagcaggtcga tttcgggtatg tatctggatg ggggagaaga gggagaaatc 180
 ctgttgccca cccgctatgt acccgaagat tgtaagttgg gagactgggtt gaacgtcttc 240
 ctttatctgg ataatagaaga acggttaata gctactacat tgacaccttt ggtacaagta 300
 ggggagtttg cctgcctgga agtatcgtgg gtcaaccagt tcggagcttt tcttaactgg 360
 ggattgatga aggatctgtt tgtccctttc agcagcaga agatgaagat gcaggtaggg 420
 aataaatacg ttatccatgc ccatattgat gatgaaagt tccggatcgt agcttcggcc 480
 aaagtagacc gttacttatc taaagagaaa gcttcttatc agcctggtga agaagtgaac 540
 atccttatat ggcagaagac agacctcggg ttttaaggcta ttattgagaa tatgtatagc 600
 ggcttgctgt atgatagtga aatatttcag actttacata ccggcgatgt actgaaagca 660
 tacgtcaagc aggtacgca agatggcaag atagatctga ttctccagaa gccgggcttt 720
 gaaaagatag atgatttttc aaagacactt catcgctaca tcacagagca tgggggatgg 780
 attggactta cagataagag tccctgccgag gagatttatg acacgttcgg tgtcagtaag 840
 aagacattca agaaggccgt tggcgatttg tacaagaagc gtctgattct tcttcatgaa 900
 gacggcatcg agttggtacg tccctaa 927

<210> 1364
 <211> 213
 <212> DNA
 <213> B.fragilis

<400> 1364
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 gcttttgaca cttgctactt cccatggact gccgcgaac acttcaatct gagaaatctt 180
 tctgcttact atcatttgct cttaattggt taa 213

<210> 1365
 <211> 1374
 <212> DNA
 <213> B.fragilis

<400> 1365
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 gaggtaaata aggatataga gcgatttacc gttggacgtg accgtgagat ggatctttat 120
 cttgcaaagc atgatgtact tggttcgatg gctcatatca cgatgctcga aagtatcgga 180
 ttgtctcaca aggaggaatt agctcagttg ctgaccgaac tgaaagatat atatgcttct 240
 gcggagagag gcgagtttgt aatagaagaa ggagttgaag acgtgcactc gcaggtagaa 300
 ctgatgctta cgcgtcgttt ggggtgatgtc ggttaagaaga ttcatacgcg gcgttctcgt 360
 aatgatcagg tgttgcttga tctgaaactt ttactcgtga ctcagatcag agaagtagca 420
 gaggctgtag agcaattggt tcatgttctg attcgtcaaa gtgagcggtta caagaatggt 480

ctgatgccgg	gttatactca	tttgcaaatt	gcgatgcctt	cttcggttcgg	gcttttggttt	540
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tgcaataaga	atcctttggg	ctccgctgcc	ggatatggct	cttcattccc	gctgaaccgc	660
acgatgacta	cggatttgct	gggattcgat	tctttaaact	ataatgtagt	gtatgcccag	720
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attaaggtga	acgagcatat	cctcgatgat	gataaaatcc	tttttatttt	tagtgtagaa	1140
gaggtgaatc	gcctggcacg	tgaaggtatg	ccattccggg	atgcttataa	gaaagtaggg	1200
ctggatattg	aagccgggtc	cttttcgcat	gacaagcaag	tacatcacac	ccatgaagga	1260
agatttggca	atttgtgtaa	tgatgagatt	tccgcattga	tgcaacgtac	catcgagggt	1320
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<210> 1366

<211> 486

<212> DNA

<213> B.fragilis

<400> 1366

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tggggcttac	cttatgaagt	gattaaccga	atcatcgatc	gtcttggtgt	cgagaagttt	180
attgatgaag	aacgttattg	tagagcgttt	gtcaacgata	agttccggtt	tgccaaatgg	240
ggtaaaatga	agattacaca	agctctgtat	atgaaaaaaa	ttcctcgtga	ggtaacttac	300
aggtatctga	atgacattga	ccgggaagaa	tatcttgcca	ttttaggaga	tctgatagca	360
gcaaaacgta	aaagtataca	tgccaaagat	gaattcgcgc	tgaatgggaa	attgatctgt	420
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<210> 1367

<211> 1248

<212> DNA

<213> B.fragilis

<400> 1367

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gaaaaaggat	atgaagtgtg	tgacgcgtgt	gccaacacag	gtggcttcag	cgaagaacaa	180
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<210> 1368
 <211> 501
 <212> DNA
 <213> B.fragilis

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 gggggcccgta tcagatttgc tcccgatctc ttattggaaa atatgaagac tttgataaaa 120
 acggccggaa ctaattttct gattatcgac gggcatcatt gtactgagaa aactgctgtt 180
 atagagacgg taaactcaat gatgctccaa acgggtggagg gtgtcatcta tctttttcca 240
 tgttggacac aaacaccggc tgcgtttacg aggccttagag caaaaggagc ctttctcggt 300
 tctgccgatt atgacggaaac gtcagtgggc ggtctgaaaa tcttttagtga gaaaggagggt 360
 atatgcagac tgagcaatcc ttggagggga agaaaacttc gggtcaccga gaatggaaaa 420
 cccgtctccg tgaaagaaca aaacaatgtc tgttcattta ttaccgaaa aggaagcact 480
 tatacgatag taggtcttta a 501

<210> 1369
 <211> 1602
 <212> DNA
 <213> B.fragilis

<400> 1369
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 gccttctatt atcttttctgc agctatcgta ttctttattc cgacatcact cgttgcggcg 180
 gaattggctg ccatgttcca ggacaaaacag ggtggtgtgt tccgttgggt aggcgaagcg 240
 tacggaaaaga aattgggatt ccttgccatc tgggtacaat ggattgaaag tacgatctgg 300
 tatccgactg tattgacatt cgggtgctgta tctatcgctt tcatcggaat gaatgataca 360
 cactgacatga cactggccag caacaaatac tatacactgg ccgttgtgct tatcatttat 420
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 ggcggtatgg tgggaaccat catccccgct gccctgctga ttatcctggg tattgtttac 540
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 aatttcgata acgtggtatt agcggcaagt atcttcctct ttatgcccgg tatggaaatg 660
 ggcggtatcc acgtaaaagga tatgcaaaac ccttcaaaga actatccgaa agcagtattt 720
 atcgggtgcac ttattactgt aatcatcttc gtcttgggta cattctcact aggtatcatt 780
 atcccggcca aagatatcag cctgacacag agtttacttg ttggcttcga caactatttt 840
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 ctgttcgttc aggggtggtgc tgttaccgta ttgagccttc tgtttgtggt tatgccttcc 1080
 gtacagagct tctatcagat cttgtcacag ctgacagtta ttctttatct ggtgatgtac 1140
 ttactttatgt tctccggtgc catctacctg cgctataaca tgaagaaagc taaccgtccg 1200
 ttccgatatcg gtaaaaaagg taacggcttg atgtggattg tcggcggcct cggcttcttc 1260
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 aacacggtat ggttctctgt attgattatc ggtgcttttg ttgttgtgat tgctccgttt 1380
 atcatttatg cagctaaaaa gccatcatgg gctgaccgca atagtacttt cgaaccgttc 1440
 cactgggaaa cacaagctaa accacaagtt gctccggcaa caacaactac cgccggtccg 1500
 gcaacaagca gcgctaccac tatcggtagt acaacttctg ccccatcgac aggttccggc 1560
 tctgtttcat ccgataagga caccacacag aaacaaagtt aa 1602

<210> 1370
 <211> 567
 <212> DNA
 <213> B.fragilis

<400> 1370
 atgcaaagtg aagacggagc tttctacttc caccggggat tccttctctga agccatgcgc 60
 aaagcgttgt atcaagatct gaaagtgaaa cgttttgccc gcggagggag taccatcacc 120

atgcagttgg	tgaaaagcgt	atctctgagt	cgaacaaaa	acatagcccg	caaactggaa	180
gaagctctga	ttgtctggct	gatagaaaca	gaacgcctta	cctccaaaga	acgaatgtac	240
gaagtatatc	tgaatatagt	agaatgggga	ccgctcgttt	atggagtgca	ggaagcagca	300
acctattatt	ttaaaaagcg	cccatctcaa	ctgacagccg	aagaatctat	ttttctggct	360
tccattattc	caaagccgaa	gcatttccgg	aattcgttta	acaatgatat	gcaactgaag	420
gagagcctgg	aaggctatta	ccgtttaata	accgaacgat	tagtgaaaaa	aggaatcatc	480
agtgaagtgg	cagccgacag	catccgcccc	gaaattaatg	taaccggcga	ggcaaagaaa	540
gatctgcaaa	gagacagcat	acaatag				567

<210> 1371

<211> 666

<212> DNA

<213> B.fragilis

<400> 1371

aaactaaacg	acatgcgaaa	agtaatcata	actctttggt	tcttggttgt	tgcatttggt	60
gcacaagccg	gaagaatcag	tggaataaat	atccaaagct	caggtgaggc	gattcttgct	120
tttgtggatg	gcgagcaa	ctgcactccg	acggagactt	gtttcattgc	taactattcg	180
ggcaggcacc	ggatagaagt	atatgcagta	cgttatatac	cacgtaccgg	acaaagtgtg	240
aaaggcgact	tgctgtttca	ggaatgggtc	tcaaatcccc	gtatgaatat	cagggatatt	300
cgggtgggct	ataatgatcg	tcctgatttc	tgtcccgatc	gtccgggtgc	tcccggtat	360
gatgtagtga	tgaaccgtac	agagttcgac	cgttttctga	gaagtgtgaa	agacaaacat	420
ttcgactcag	accgtaacaa	gctgattgaa	actacacttg	tttcgacagg	cttcacttcc	480
gaccaatgtc	tccaattagt	aaatctgttc	agtttcgata	gtgaaaagat	aaaactgatg	540
caggctatgt	atccacggat	tggtgataaa	cccaatttct	atctgggtcat	cgaaagcctc	600
acttttcagt	cggataaaaa	caagatgaac	gaatttgtga	gaaaatacca	taatcaacgt	660
aactaa						666

<210> 1372

<211> 1044

<212> DNA

<213> B.fragilis

<400> 1372

aagatgaaag	aagaaaaata	catgaggcgt	tgcattccaac	tggcaaaaaa	cggtctttgc	60
aacgtatctc	ccaatccaat	ggtaggagct	gtcatcgtat	gtgaaggaca	aataatcggt	120
gaaggctatc	acatccgttg	cggagaagca	catgccgaag	tcaatgcgat	ccgctctgta	180
aaggatctgt	ctttactgaa	acacagtact	atatatgtaa	gtctcgagcc	ttgctccac	240
catggaaaaa	ctcccccatg	cgctgattta	atcatagaga	aacaaattcc	taggattgta	300
atcggatgcc	aagaccatt	ttccaaagta	gcaggcaaag	gaatccaaaa	gttacgggat	360
gccggatgcg	aagtcattgt	cggagtctctg	gaaacggaat	gtcgcgaact	tatacgga	420
tttatcactt	tccataccct	tcaccgcctt	tacatcggtt	tgaatgggc	agaatcagcc	480
gatggtttca	tgcacctgga	acgtacggaa	ggacaacctg	tcatattatc	gactcctctc	540
acttccatgc	tggtacacaa	aaaaagagca	gagtcggacg	ctatcatggt	cggtagcgga	600
accgcactac	tggacaatcc	ggcactcacg	gtacgcaact	ggcacggaca	caatccgggtg	660
cgaatagtga	tggaccgtaa	tcattcactc	cctcaaacct	cccatttgct	ggataacagc	720
gtatctacgc	tcgtttttac	ggaacatccc	cgtgccggaa	aagaaaacct	ggaatacatc	780
acactcaatt	accagacaga	tattctgcca	caaataattgt	ctgccctcta	tcaacgcaac	840
ctacagtcgc	tgatgataga	aggaggaagg	attcttctgg	agtcatttat	ccgttccgga	900
atatgggatg	aagtcatcat	agaaaagagc	gataaactgc	tttattccgg	tggttaaagca	960
cctgaaataa	gcgataaaat	tagttattcg	gaagaaaaac	atttctgtac	gaccttcagg	1020
cattacttga	agagaaatac	ctaa				1044

<210> 1373

<211> 759

<212> DNA

<213> B.fragilis

<400> 1373

gatatgaaac	gaatattgat	attctttttt	gtcataggaa	tcactgctat	aagcagtgtg	60
agtatggcag	ccatgagcaa	tagccgcatt	cgcaaggaga	ctcgttttct	gaccgataag	120
atggcctatg	aactgaacct	gagcacaggg	caatataatg	atgtatacga	aatcaattac	180
gattttat	actccattcg	ttatctgatg	gacgatgtga	taaggggaga	agagtgggca	240
ctcgataaat	actatcgtac	cctggacatt	cgtaatgatg	atgtgcgttg	ggtgctgact	300
gcttcacagt	atcgccgttt	tataggggtc	gattat	atcgaccggt	ttatgccagt	360
ggtggcagtt	ggagttttcg	tatctatatt	cggtatacaa	accataatca	tttctacttt	420
ggcaaaccgt	accactataa	cagctattgc	ggtggacact	atcgctactca	ttatcataac	480
agctattatc	gcgagcgtta	tcgacatgat	ttctattcgg	gttcgcacag	tataagagat	540
catcgaaatt	ataacacgca	tcgccgttcc	gatttcggat	cggttaacct	acgttccaat	600
tcgggacgga	gagatgaggt	gagaagagga	gtgtcccaaa	gagaaagctc	agcttcacgg	660
gataacaaca	gagtgactcc	tgggaatgtt	acccgtaccg	gcagagggaac	cagaagtacg	720
gaaaataacc	ggaggacgaa	tactgggtccg	gaagagtga			759

<210> 1374

<211> 492

<212> DNA

<213> B.fragilis

<400> 1374

ttaaaata	gaaagaagag	ccattcggac	agaatctgtt	cggattgttc	ttcttttttc	60
tttataagta	agataaataa	gatgactaaa	tttgaaagta	gtgtcaaggt	gataccttat	120
agccaggaac	gtgtgtacga	gaaacttgcc	gatcttagta	acctggaagc	tattaaagat	180
cgtttgcccg	aagacaaagt	gaaaaatatg	agtttcgata	ctgatacact	tagtttcaat	240
gtggatcctg	taggacaact	gaccttgaga	attattgaac	gggaaccag	ttaatgtatt	300
aagtttgaga	ctaccaattc	gcctctacct	tttaatatgt	ggattcagct	tgtggctgta	360
tccgaagaag	aatgtaaact	aaaggtaact	attgggctgg	aaatcaatcc	gtttatgaaa	420
gcgatggtac	agaaaccttt	gaatgaagga	ttggaaaaga	tggctgatat	gttatctatg	480
atacaatatt	aa					492

<210> 1375

<211> 981

<212> DNA

<213> B.fragilis

<400> 1375

ggacgaagag	gtatgataaa	agcaggaatc	attgggtggag	caggatatac	agcaggcgaa	60
cttatccgcc	tgcttatcaa	tcatcccgag	actgaaatcg	tatttatcaa	cagtaccagt	120
aacgccggaa	acaaaattac	tgatgtacac	gagggacttt	acggagagtg	tgacctggct	180
tttacagacg	aacttccggt	ggaagacatc	gatgtactgt	tcttctgtac	agcccatggg	240
gatacgaaga	aatttatgga	aagccataat	atcccggagg	aactgaaaat	tatagacctt	300
tcaatggatt	atcgcatagc	ttcaccggat	catgacttca	tatacggctc	gccggaacta	360
aatcgtcgtg	caacctgcac	agcaaagcat	gtggctaata	cgggatgttt	cgcaacttgc	420
atccagctgg	gactgctccc	actggcaaaa	cacctgatgc	taaatgagga	cgtaatggta	480
aacgccatta	caggaagcac	gggagcggga	gtaaaacccg	gtgcaaccag	tcatttcagc	540
tggcgtaaca	acaatatgag	tgtatacaaa	gctttcgaac	accagcacgt	tcctgaaatc	600
aagcaatcgc	tgaacaact	ccagaacagt	tttgatgcgg	aaattgattt	tatcccttat	660
cgcggcgatt	tccccgcgg	catctttgcc	actttggtag	tgaaaacaaa	agtagcattg	720
gaagagatcg	tacgatgta	tgaggaatat	tatgccaaag	attcgtttgt	ccacatcggt	780
gataaaaaca	tagatctcaa	acaggtagta	aataccaata	aatgtctgat	tcacctggaa	840
aaacacggcg	ataaattact	gatcatttct	tgcacgcaca	atttattgaa	agggtgatcc	900
ggacaggctg	tccacaacat	gaacctgatg	tttaacctgg	aggaaacggt	aggcctgcgc	960
ctcaagccct	ctgcattcta	a				981

<210> 1376

<211> 687

<212> DNA

<213> B.fragilis

<400> 1376
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 cagaaaggaa tgacacaaca ggaagtgaag gcgattcttg gaaagcccaa ttacagacgc 180
 tttgatggag caatggaaga gtgggaatat cgcgggtatc tttccaaagc agggcattca 240
 gtgatttggt ttaactttat cgacaaccgt gttggtgggt tggattcggt tagagacggt 300
 gcaccgactg ctctctctgc cccttccttt tctttaggca taggtggtac agtcactgct 360
 tcggacatag ctcccgcttg tgactataga gccatgagaa acgatgagtt tgcccgcttt 420
 ttaaattgat taaagagtaa aacttttgat tcggaccgga cagatttcat tgagaaagca 480
 acccgctcta ccggatttac atcagagcaa tgctgcagat tgataaaact ttatagcttt 540
 gatgatgatc ggactaaggt actgaagata ctttatccga gcgtagtgga taaagataat 600
 ttttccgcag caatagacgg attggatttt ctgtcgaatc aggatacggg gaagaacttt 660
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<210> 1377

<211> 783

<212> DNA

<213> B.fragilis

<400> 1377
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 ggaaagctgg aagcactaaa gaaagaattt ccttctattg ctatcactcg caataatgct 180
 gaagctgcta ctggtgctga tatcgtgatt ctagctgtga aaccttggct gatcagaggt 240
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 aaatatattc aggctgccat gcaagcgggc atcgaaatgg gaatccgacc atcggtatgcc 600
 atggatatga ttgcccaatc tgtaaaaggt gccgccgaac tgatactgaa caatgacacc 660
 catccaagcg ttgagatcga caaagtgact acaccggcg gaattaccat taaaggcatc 720
 aacgaactgg agcataatgg attcacctct gccatcatta aagcaatgaa agcatcaaga 780
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<210> 1378

<211> 693

<212> DNA

<213> B.fragilis

<400> 1378
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 aattttagaga gattattcgc cgagaagttg ttgaagatta aagctattaa gcttcaaccg 120
 gcaaataccgt ttacatgggc ttccggatgg aaatcacctg tttactgcga caatcgtaaa 180
 accctttctt atccttctct tcgtagtttt gttaagttcg agattacacg tttggttctg 240
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 gcttttagtg ctgatgcatt gaatcttccg ttcgtgtatg ttcgctctac cccgaaagac 360
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 gaagatttaa tctctaccgg tggagcaggt ttaaaagctg tagaagctat tcgtcgggat 480
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 gcctttaaag atgctaaagt gcctttggta acattgacta attatgaagc tgtgttagat 600
 gttgcacttc gtaccgggta tattgaagaa gaagacattg caacgttaaa cgaatggcgc 660
 aaggatccgg ctcatgggga aaccggaaaa taa 693

<210> 1379

<211> 1377

<212> DNA

<213> B.fragilis

<400> 1379

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accatacacg	catttgcact	tgacaccata	catggggtaa	actataaatt	tacaattgac	180
caacttggtc	cogatggagt	aggacttatt	tataaccagg	attcactacc	tgtaggctcc	240
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tcaactgtag	tagacaaaaa	taactttatc	tgggtaatat	ggagtaacgg	tggtgccaac	1320
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<210> 1380

<211> 612

<212> DNA

<213> B.fragilis

<400> 1380

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gtagccgacg	cctcgcatga	ggtttacgtt	gacactattt	tggagacaat	cagaaacgca	120
gcaaaagtac	gcggaaccgg	aatagcagaa	cgtacacacg	agtacgtagc	cacccaaaatg	180
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gaatcatggg	gaaacaagca	atacgttgct	acttcaggat	tgatcgtaaa	ccctgacttc	300
cggggattag	gactggccaa	acgtatcaaa	caagcctctt	tccaattggc	tcgtttacga	360
tggcccagag	ctaaaatatt	cagtctgacc	agcggcgcag	ccgtgatgaa	aatgaatacg	420
gaattgggat	atgtaccggt	cacttttaac	gagctgaccg	acgacgaagc	cttttggaaa	480
ggatgtgaag	ggtgcataaa	ccatgaaata	ctgatggcga	aggaccgtaa	attctgcatc	540
tgcaccgcta	tgctatatga	tccgacagat	ccgcataaca	taaaaaaaga	acaagaaaaga	600
aataacattt	aa					612

<210> 1381

<211> 1134

<212> DNA

<213> B.fragilis

<400> 1381

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<210> 1382

<211> 1242

<212> DNA

<213> B.fragilis

<400> 1382

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<210> 1383

<211> 1980

<212> DNA

<213> B.fragilis

<400> 1383

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<210> 1384

<211> 483

<212> DNA

<213> B.fragilis

<400> 1384

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<210> 1385

<211> 1665

<212> DNA

<213> B.fragilis

<400> 1385

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1384
 483
 DNA
 B.fragilis
 1384
 1665
 DNA
 B.fragilis
 1385
 1080

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<210> 1386

<211> 1005

<212> DNA

<213> B.fragilis

<400> 1386

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<210> 1387

<211> 2283

<212> DNA

<213> B.fragilis

<400> 1387

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1388 345 DNA B.fragilis

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<210> 1391
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<210> 1392
 <211> 1002
 <212> DNA
 <213> B.fragilis

<400> 1392
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 ctggtagact acctgagtaa ggagtcagg gtcgagcgtc cctattatga caatttttc 180
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<210> 1393
 <211> 969
 <212> DNA
 <213> B.fragilis

<400> 1393
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 tatgctaattg attacgatta ccatatcggt tcgggtgcca aagtaggtgg cgactacgga 180
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gacgacagtt	ggcggggagc	ttacgaagca	cgtagcggaa	aagtacagga	agtgggtaaa	300
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catattgcta	ctgacatgcg	ttttggagga	ttggtagctt	cttactctaa	cttgatggtt	420
acacaggccc	gatggatcaa	gagttcttta	aaatggcgtg	atcccgaaca	tggtggtttg	480
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<210> 1394

<211> 867

<212> DNA

<213> B.fragilis

<400> 1394

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gtctatctgt	cagagcagac	ttcactggaa	tatcccaaac	atctttctaa	aaaaagaaga	360
gaagtgaagt	tgaaaggaaa	cgcccttttt	gacatagcgg	gcaatcgtgc	acgtcctttc	420
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<210> 1395

<211> 447

<212> DNA

<213> B.fragilis

<400> 1395

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ttaatgccat	ccttaccatt	ggcaccatct	ttaccatatg	cacgaatacc	ggatatctttc	180
ccattaatat	accagttccc	attggtagcg	attattacct	ctggcgatct	tccatcttta	240
cctatcgag	cctttccggt	atcttttcca	ttgattacc	aatttccatt	ttctccaatt	300
gtaacagtag	gtgttggtcc	tgcaactcct	tcttcacctc	tggaagggtt	tctgtatct	360
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<210> 1396

<211> 291

<212> DNA

<213> B.fragilis

<400> 1396

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ggatatggag	ttcggcacaa	tcctgttgc	agtcaggtag	gcctgataat	cttccatgag	180
tatatggtct	atcgagccaa	tgtaaattgc	cctgttatcc	cggaattggt	tgaaactgcc	240
aagcgcagca	ttatagttct	tggcgggtgcc	ggagtgggtc	aattgccgta	g	291

<210> 1397
 <211> 1401
 <212> DNA
 <213> B.fragilis

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cccattatgg	ccacctcggt	tatccaaatg	gcatatagcc	tgacagatat	ggcttgggta	240
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attatttcac	tttgcgtggg	tggactgctt	ttcctgcttg	cacgtcccat	catcggtatc	480
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gctatcacct	ggaatacatc	acaaggattc	tctactgcct	taagcgcatt	cattgccag	1020
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<210> 1398
 <211> 237
 <212> DNA
 <213> B.fragilis

<400> 1398						60
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cgtggagtag	cgttgcaatt	ttctgctttc	cttactccta	cgcatctatc	ttccgaaaag	237
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<210> 1399
 <211> 1206
 <212> DNA
 <213> B.fragilis

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ttcccccatg	aatgggacga	agaacgctcc	aagccggttc	tggccgacaa	tgtcaggcgg	240
acgaccgtca	tgcagtcgat	aactcggaag	ctgcaatcgg	atatgaaacg	gctgtacaaa	300
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cgcatactcc	gtgctgttta	caaccgtggc	gtcgaacagg	agctgaccga	agaccggaaa	600
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<210> 1400

<211> 582

<212> DNA

<213> B.fragilis

<400> 1400

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cgcctatacg	cgcgcagcat	aacgggtgaa	ccggacgtag	ccgaagaaat	cgtcgaagaa	180
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gcctctctcc	tctcactatc	ggtaaaaaaca	gtagagaaag	aatgaccgg	ggcactccgg	540
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<210> 1401

<211> 282

<212> DNA

<213> B.fragilis

<400> 1401

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gaaaagggtca	tggaagtgtt	tgacgacggg	ttcgattacc	gggaggtggc	gaaccataaa	120
gagctgacag	atcttaccgt	ggccttgttt	gcagggatga	tatctgcaca	gcctcccgg	180
acggcgggcga	tggaagttcc	agtggcctgc	cttaggggaag	acgcgaggac	ggggacgaac	240
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<210> 1402

<211> 891

<212> DNA

<213> B.fragilis

<400> 1402

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cctcatgaaa	ccgattgtat	ttgttttgta	atggaaggag	aactggaact	gtcctgtaac	180
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aatgaccacg	aattcaaaaa	gaaagtgcctt	gataattata	gaaatgccag	gacagtaaag	600
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cctcaatttt	gcaggtactg	caaacgaaac	tttggataca	ctcccggaga	atggagaaaa	840
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<210> 1403

<211> 372

<212> DNA

<213> B.fragilis

<400> 1403

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gtcaactttc	ctgtttatgg	tctgtcggaa	aacaaacgca	cccgttatcc	aatgatagcg	180
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<210> 1404

<211> 489

<212> DNA

<213> B.fragilis

<400> 1404

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cagatcaagc	ctttgaaggc	tataaaaaaga	aggttaaagt	cactcggtgg	cggtgagata	180
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atgctctaa						489

<210> 1405

<211> 192

<212> DNA

<213> B.fragilis

<400> 1405

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gagccaaatt	ggatacaaaa	gttcagagac	ttctgttggt	tatataatta	caaaaaccat	180
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<210> 1406

<211> 1287

<212> DNA

<213> B.fragilis

<400> 1406

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tgtaatagtc	gcggggccta	tccattggct	gtgcaggtcc	ttcataaacg	gaagaaaaaa	180
gtcttttata	cgggatacag	tattgagccc	tgtcagtttg	attccattag	cggacgggta	240
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gagaaaatga	ccagaatcta	tctgaaggaa	cttgaccggg	cggtagtgga	cgaagtgaac	1260
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<210> 1407

<211> 1572

<212> DNA

<213> B.fragilis

<400> 1407

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gtgaaccgta	agactgtacg	acggatatctg	aatatgacta	tggaggagtt	tgtaaaaaaa	180
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<210> 1408

<211> 1437

<212> DNA

<213> B.fragilis

<400> 1408

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<210> 1409

<211> 474

<212> DNA

<213> B.fragilis

<400> 1409

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<210> 1410

<211> 267

<212> DNA

<213> B.fragilis

<400> 1410

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ttgcgaggca	tcacttacct	ccccctgctg	atactgggtc	tggtgggtcat	ggatgggctg	180
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<210> 1411

<211> 189

<212> DNA

<213> B.fragilis

<400> 1411

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tgtatgtag 189

<210> 1412
<211> 204
<212> DNA
<213> B.fragilis

<400> 1412
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ggattgctgg ccatagcata taatcttgca aaagtagcct cttcgacaac tttttgtgcc 180
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<210> 1413
<211> 1584
<212> DNA
<213> B.fragilis

<400> 1413
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aaaatcgaag agacagaaaa ttaa 1584

<210> 1414
<211> 564
<212> DNA
<213> B.fragilis

<400> 1414
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tccgaaaaag agagactgga caaagccctt ctaggctgta tcggagagtt ggcattccaa 180
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cactccgatg aatttgacgt aaaagtaaac ggtgccaaaa ttgatataca agtagcaaaag 300

aaaacaactg	ccaaccctcc	aaccgacaat	tggacctatg	ggtatccaca	agagcagcac	360
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ttttatggtt	ggatcagagg	aaagcaaata	gtggaattta	aagttgtcac	ccaaaattct	480
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<210> 1415

<211> 1305

<212> DNA

<213> B.fragilis

<400> 1415

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gcaacaaaa	accgtcgttg	gttcggtccc	acgaaagcgg	aggtttcgct	cgtgtggcct	1260
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<210> 1416

<211> 975

<212> DNA

<213> B.fragilis

<400> 1416

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caaattgtta	tcaacctgat	tccttatatt	ataggagggtg	ttctggtttg	gtttatcata	240
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<210> 1417
 <211> 402
 <212> DNA
 <213> B.fragilis

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<210> 1418
 <211> 969
 <212> DNA
 <213> B.fragilis

<400> 1418
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<210> 1419
 <211> 729
 <212> DNA
 <213> B.fragilis

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<210> 1420

<211> 204
 <212> DNA
 <213> B.fragilis

<400> 1420
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 gtaataccgc tatccgtagc ttga 204

<210> 1421
 <211> 651
 <212> DNA
 <213> B.fragilis

<400> 1421
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<210> 1422
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 <212> DNA
 <213> B.fragilis

<400> 1422
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<210> 1423
 <211> 594

<212> DNA

<213> B.fragilis

<400> 1423

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gaagcgagac	gtatcacatt	tcaactcaac	acgacatatc	atagcccaa	cgaggtagca	180
gaactgcttt	cagaactggt	cggttatcgt	gttccctctt	catttcgtgt	atttcctccg	240
ttttacacgg	atttcggtaa	gaacattact	attggcgaa	atgtgtttat	caatgcctgc	300
tgccactttc	aagatcatgg	tgggattaca	atcggtgacg	gttgtcagat	cgggcataat	360
gtagttttcg	ccacactcaa	ccacggactg	ctacccgaag	aacgcaagtc	cacccaaccc	420
gccccaatcg	tactcggcaa	gaacgtgtgg	gtaggctcca	atgccaccat	tcttcaagga	480
gtaagcatcg	ggaacaatgc	cattgtcgca	gcgggagcag	tagtaaccaa	agatgtcccg	540
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<210> 1424

<211> 267

<212> DNA

<213> B.fragilis

<400> 1424

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gatgagcgca	tagcagcctc	cgatgccaaa	gagtttgtac	atgaacttcg	gacgggcagt	120
tggatggatt	ccaactgcac	agatgaacag	tacatgtgca	attttgccga	acgttacgtg	180
attcaggcag	gtgtgaggat	tgccactgat	acaccggaga	atttccttgc	cgatttgatt	240
cggacaggat	acgccaaaga	gatgttaa				267

<210> 1425

<211> 2073

<212> DNA

<213> B.fragilis

<400> 1425

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caaaacacac	ctaactcgtga	gccactttct	atctctacct	tagataatcg	cttcctgaaa	180
gagaatgaaa	tatcggggagc	taaagactta	agttccttac	ttcctaattt	ctatatgccc	240
gattatgggt	ccaagcagaa	ttctccggtt	tatatccggg	ggataggagc	caaaaaggat	300
gtcccatcag	taggctttta	cgtagatggc	attccctatt	ttgaaacgtc	cgctttcgtat	360
attgacttgt	cggatataag	tagtatagaa	gtacttcgcg	gaccgcaagg	cacactctac	420
ggacgtaatt	ctattggtgg	aaccatcaat	gtatataccc	attcgcccct	cgattatcaa	480
ggtacgtatt	tccggttggg	atatggcagt	tacaatgata	tgcgattaat	agcttcgaac	540
tatacaaagg	tgaacgagca	gttaggttta	tccttttagcg	gtaattatca	tcacaatgat	600
ggctttttta	ccaatttgca	taccataaaa	aaggcagata	aacttgataa	cggagccgga	660
cgaatcgggc	tcacatggaa	acccgcagcc	cattggacta	cccgcttcat	aacctcctac	720
gaatattcca	atcaaggagg	atatccatac	ggattgtata	atgccgacaa	gggaacaaca	780
gaagccgtaa	actacaacaa	tgaaggatta	taccgacgaa	atctgctaac	ctccggaatc	840
aacatacggg	ataacggccc	ccatatcagc	ttcaacagcc	aaacatccta	tcaatatata	900
caggacaaga	tgggaatcga	tcaagatttc	tcgcctcgca	atatattcta	tggtcaaaat	960
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gcatttttat	atcaatctac	actcgatctg	ttgcaaggac	tgtcttggtc	tgtagggtta	1200
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attagcataa	acaaaggatg	ctttacatgg	gaagcctgga	gcaagaatct	cacaaatacc	1980
gactacctga	gctactactt	cgtaaccagt	aaagcctatg	ctcaaaaagg	aaaacccatt	2040
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<210> 1426

<211> 252

<212> DNA

<213> B.fragilis

<400> 1426

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tcagaatacg	agtccctgca	gccggttaca	tatcaaatag	acacaaaaccg	cttcgaaaaa	120
aatcaaataa	aagactccgc	aaaagaacag	tataaatcag	ttaccaacct	ctacttacca	180
cgaaacgaca	aaaactgtat	atgcacgtca	gtcccgaacg	ttaataccca	agaagccaag	240
cctggcagat	aa					252

<210> 1427

<211> 696

<212> DNA

<213> B.fragilis

<400> 1427

ctatataaaa	agagcttaat	tatgaagaaa	attaaattta	tggctttggt	tctaagcatg	60
gcgcttggtt	tcggaagttg	tggaagcatg	aataatacag	ctaagggtgg	tgtcatcggc	120
ggtgggttcg	gagcggccct	gggagctatt	atcggtggta	ttgccggtaa	aggaaaaggt	180
gctgctatcg	gtgctgcagt	aggtactgcc	gtaggtgccg	gagcaggtgt	tctcattggt	240
cgtaagatgg	acaagaaagc	tgctgaggct	gcaaagatca	aagacgcaca	agtagaacia	300
gttactgata	acaatgggtc	ggctgccgta	aaggtaactt	tcccctcagg	tatacttttt	360
gcattcaact	cttctgcact	aagtgcagca	tctaaacaat	cattggctga	atttgccaat	420
atcctgaaag	aagatccgac	agtcgatgta	gccattatcg	gtcataccga	taaagtaggc	480
agctacgaag	ctaaccagaa	agtatcgccc	aaccgtgcat	acgccgttga	aaattatctt	540
caggcatgtg	gcgttaaacc	ttaccaattc	aaaaaggtgg	aagggtgtag	ctactcacia	600
tacaacgagt	cggaaacacc	ggaacaaaac	cgctgtgtag	aaatatttat	gtacgccagt	660
gaacagatga	ttaaaaacgc	tgaagccggt	aaataa			696

<210> 1428

<211> 1275

<212> DNA

<213> B.fragilis

<400> 1428

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attctgtcgg	gcatcatgcc	actggctgca	caggacaatg	cggaagata	caccacgatc	120
agtggagtgg	tcaaagacaa	actcaacaaa	aagaaactgg	agtatgtcaa	tgtatcgata	180
ccgggaagca	gtgtcgggtac	cgtcaccaac	gcagacgggtg	agtttactct	aaagattccc	240
gagtcggttc	aggccaaaaga	cattgaagcc	tcacatgtag	gttacctcaa	ttcccgtatc	300
cctttaaaag	aagaaaatcc	cacagaacgg	attgtctggc	tcactcctta	tgccaacctg	360
cttagtgaaa	tcctggtaag	agccagagat	ccacgcagca	ttgtggaaga	agcacttcgc	420
aagattccgg	ccaattatag	tccccagagc	aacatgctca	caggattcta	cagggaaattg	480
gctcaaaaag	ggcgtcggtta	tatcaatatt	tcagaggctg	taatcgatat	ttataaaaacg	540
ccctacaatg	aaactgccga	acacgatcgg	gttcagattt	acagaggacg	cagactgttg	600
agccaaaaac	agagtgcac	actggctgta	aaattactcg	gaggcccaa	tatggccatt	660
tatatggata	tagtaaagaa	cccggactgc	ttgttggtc	aagaagacct	attgttctac	720

gaatttcgaa	tggaagaccc	gaccagcatt	gacgaccgat	cccagtatgt	catcagcttc	780
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ctgatatcat	acaaaaacct	ggaagggatc	acttacctga	gttatatccg	gaacaatatc	1020
cgctttaagt	gtgactggaa	gcgtaaactg	ttttctacca	actataccat	cttatcgga	1080
atggtgggta	cggacaggaa	agaaaacaat	attacagcta	ttccatataa	agcagcattc	1140
aaacaaaatc	atgtattctc	agacaaagtg	gataacttta	ccagtgacaa	cttttgggga	1200
ggctataata	tcatagagcc	tacagagtca	ttggagcatg	cagtaaacia	attaaaaaaa	1260
cagcagaagc	agtaa					1275

<210> 1429

<211> 951

<212> DNA

<213> B.fragilis

<400> 1429

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ggaaaccgtg	gcttcgtgtg	gaacgtctat	aagagaatga	gggacgaggg	cctgcttccc	180
gcttcacaga	cagcgactgt	cttaagacca	gaacccgact	atactttcaa	ccgttgcttc	240
ggggttgaga	tcgaagccta	caactgcccg	agacagacct	tgacggatgc	gcttcgggag	300
actggcatcc	ctgtggaaat	tggaaagccg	aatgccgaga	ccaacagcaa	ctggaaactg	360
accacggacg	gaagtttgga	gggaagccat	acttttgagc	tggtcagccc	gacccctctg	420
ggtgagcagg	gtttggagg	actggagagg	gtatgctggg	tgctggacgc	atacaatgta	480
aagataaata	gcagttgtgg	agtccatgtg	cattttaatg	cgggtgactt	taactttaca	540
acttggcaga	acttaatcct	ttcctacaaa	catgccgaaa	ctgaaataga	caagttcatg	600
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gaagatatca	gatcggcgga	aagtatcgag	tcactacaaa	gactcttcgg	cagcaggtag	720
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ggaacgatca	atttcacaaa	aatagagaat	tgggttagat	tcttgggaag	attgattatc	840
tttgcatcta	catcttcgct	tcctgcggga	atcagactgg	aggattttcc	tttcttggag	900
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<210> 1430

<211> 1206

<212> DNA

<213> B.fragilis

<400> 1430

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accaaagcct	gggaaatagg	ggtaggtgga	gctcttatca	actgggacag	agtgactttc	180
tcgaattttc	gtcaggtcga	tgggaactat	ctgtatcgaa	tgaatatcga	tcactttttt	240
ggcggtatcc	aactctatgc	agctcgtgaa	ttgaatcctt	ggttttatct	tgatttgcag	300
gggacatttg	gactggcaag	aaaacaagtt	gaaacaggcg	ggcgtaagtt	tgatttcatg	360
tatatggccg	gtccgggact	tcaattccgg	ttaaccccat	tgtttaaatac	aaaatatgta	420
gaaccttatt	tacgcgtagg	tgtaaactac	ctccatcatg	atttttatgc	aattaatgca	480
ggaaagtttg	aaaatgatcc	tataggagaa	gcagaatgga	catcatccaa	tccttggaac	540
aaagagaaaa	taggatctaa	acaatcctat	ttcccttat	ccttcggagc	cggagtacaa	600
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ttcgataaca	ttcattttgc	gtttgataag	gatgtgatta	cttccgaatc	tgaaatcact	900
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tatacagatg	caagaggaag	cgacaattat	aacatagatt	tgtcgaaacg	ccgcgctaaa	1020
gctgtgtata	gtgcattgct	gaaacgacaa	gtacctcaac	atatgttgaa	atggcgcgga	1080
gtcggatatc	atgctagtcc	agtgccggct	tcagggtccg	ataaagtcag	gatgggtgat	1140

cgaaaggtgt ctattgagag agtgacgaat tcagattatt ggggttggtt aacgaatgaa 1200
gaataa 1206

<210> 1431
<211> 906
<212> DNA
<213> B.fragilis

<400> 1431
aagaatatga aaacaactca gagaacggcc ggatgggtatc atgtgatggc agcgggtgaca 60
gtaatgatat ggggaacaac tttcgttgct actaaagtgt taataaaaata tggcctgtca 120
cctgtcgata ttttattcta ccgtttttta ttggcatata tttgcatctg gtttttctct 180
cctcgtgtgt tgctgggctaa gagttggcag gacgaactgc gggttgtagg actcggacta 240
tgtggagggt cgctctatct tgtagccgaa aatacggcat tgggtatgac gcttgcttcc 300
aatgtatcgt tgattatctg tacgactcct attctgactg cactgttggc accctttttc 360
tataaggggtg ataaattaaa agcacgtctg ataggcgggt ctctgatggc gcttatcgga 420
gtgggactgg ttgtgtttta tggtagtttc attttgcagc ttagtccggc cggtgatatt 480
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cttattactt tgctgacctc tgccattgtg atcgacgaaa ccatcacaat agttgcttta 840
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aaataa 906

<210> 1432
<211> 234
<212> DNA
<213> B.fragilis

<400> 1432
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acgctccgga acgttcgggtg gaaagaaacg tcagtgtatg ttactccaaa agccatcata 180
aagatcggaa aacttcttcg ggcaggcagt tgcaaaaagc aaccgataaa ataa 234

<210> 1433
<211> 561
<212> DNA
<213> B.fragilis

<400> 1433
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agaatgatta ctttttttga aatcacagga ttcaatcccc gctacgcac ccggaatccg 180
acggcactgg tggaaaagag aattgaggac gttgtcagaa tcatcaagtc ccaggaacgg 240
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ctcaaacgtc tgggcggcct gctgaaatac cagcttgatc cggagaagtt tccaaggata 480
aaatacagcg atgatgtaag agtccccgtc aacaccctgc agttgcttat caagaagatc 540
aacgaggaat atgtattgta a 561

<210> 1434
<211> 459
<212> DNA
<213> B.fragilis

<400> 1434
 agggaaaacga aaccggaagaa aaagaaacgg ggtgccagta ccatcagcca gcagacagcg 60
 aaaaacgtct ttctttggcc acaatcttcg tggatacgaa aaggatttga ggtctacttt 120
 acattttctga ttgaaacttg ctggtcgaaa gaacggatta tggaagtata tctaaactcc 180
 atcgagatgg gtaaagggtat ttacggtgct caggcaaccg ctaaataata atttaaaacg 240
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 atacgattcg actcggcaca cccctcacct tatatcaaac gacgccaagg acaaattctg 360
 cgactgatga atctggttcc gaagttccct cctgttgata aggaaaaagc gaaaggacaa 420
 gatacaaaaa aacaaaagaa taagaaaaag aagaaataa 459

<210> 1435
 <211> 615
 <212> DNA
 <213> B.fragilis

<400> 1435
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 gcaaacagaa agcagcccaa taacaaagtg cttatagcct acttctcggc gacaggaact 180
 acagcaggtg ctgctgaaaa attgtctaag gttacaggtg gagaacttta tgaaattact 240
 ccagcccaac cctatacaaa tgctgacctc aattggaata acaaacaatc gcgcagttcg 300
 ctggaaatga atgatccgaa gtcacgtccg gccatccgga aatcttccat agatatcgcc 360
 gattatgacg tgatttttcgt cggctatcct atctggtgga atcttgctcc acgtattatc 420
 aatacattca tcgagagcta tcatttgaaa aacaagacaa tcattctgtt cgccacatcg 480
 ggaagcagta gcatcactaa cagtatggca actctgaaga aaagttatcc cgaactgatc 540
 tggaaaagagg gaaaactgct gaatggaatg aacgaaaacg atatccgcga atggatcagt 600
 aaattggact attga 615

<210> 1436
 <211> 279
 <212> DNA
 <213> B.fragilis

<400> 1436
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 aaaaatgagt tgtataaatc tgtgcaatct atagtaaaaa agagttttga aactctctct 180
 tttattcttt gtgaaatctg ctccgacaaa cagcaataaa tattaatatca tttgtacgct 240
 ttgtacattt tatctcttcc gatcgttatc tttatgtaa 279

<210> 1437
 <211> 318
 <212> DNA
 <213> B.fragilis

<400> 1437
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 tatgttgcca ctaaagacag aaaggaggta aatatggcag gcaagaacat tcatgttggt 120
 cacaatggcg accaatggaa agtaaaagcaa gaaaatgctc aacgtagttc tggtaatctc 180
 agaacacaac aagaagcatt tgagcgtgct cgtgaaatcg ctattaagaa cggtaagaa 240
 gttgctatac acggattaga tggacgtatt cgtgaaaagc atagctatgg caatgaccca 300
 taccaccag aagggttaa 318

<210> 1438
 <211> 621
 <212> DNA
 <213> B.fragilis

<400> 1438

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atgaacttac	ttatcatcct	ggggattata	atcatcctcg	tcattatcat	tgcttccatg	120
tataactcat	tggtaaaatt	gagaaataat	cgcgaaaacg	catttgccga	cattgatgta	180
caactgaagc	agcgtcacga	ccttattcca	caattggtag	atacagtaaa	aggatatgca	240
gctcacgaaa	aagaaacact	tgagcgcgtc	atccaagccc	gcaacggagc	tgtcagtgcc	300
cggacaatcg	atgaaaaaat	tacagctgaa	aatcaactta	gttccgccct	cgcaggattg	360
aagattacat	tgggaagctta	tccggacctg	aaggccaacc	aaaacttcc	tcagctacag	420
gaagagattt	cggacgtaga	aaataagctg	gctgccgtac	gccgctactt	taattcggcc	480
acaaaggaac	tgaacaatgc	tgtacagaca	ttcccttcta	acctgattgc	caacatgttt	540
ggctttcata	aagaaatgat	gttcgacttg	ggcacagaac	aacgtgccaa	tttagaagag	600
gctccgaaaa	taaaatttta	a				621

<210> 1439

<211> 1311

<212> DNA

<213> B.fragilis

<400> 1439

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gatttccgac	gaagagggtg	cggaaggcgg	ctccggcttc	gacgtggatg	tggaacgactg	180
gggagattac	gaggacatcg	aacttccctc	ttaatttgca	tagagagtta	tcaaaacatt	240
tttattcaca	atttaatttt	taatcaaag	aaaaagatct	ttttgattgg	attagcagca	300
acagccatgt	tggcaagttg	cagcaacgac	gagaccgtgg	aaatggcaca	gtctaaggcc	360
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<210> 1440

<211> 222

<212> DNA

<213> B.fragilis

<400> 1440

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cttgctcttc	cttatcagga	atttactaag	ggacctccgg	cccttagccc	gggacgcttc	180
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<210> 1441

<211> 2664

<212> DNA

<213> B.fragilis

<400> 1441

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<210> 1442

<211> 264

<212> DNA

<213> B.fragilis

<400> 1442

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ggtctcataa	gtatattatt	ttag				264

<210> 1443

<211> 204

<212> DNA
<213> B.fragilis

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<210> 1444
<211> 186
<212> DNA
<213> B.fragilis

<400> 1444
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ggatga 186

<210> 1445
<211> 516
<212> DNA
<213> B.fragilis

<400> 1445
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cagagattgc aacaggaact gaaggacttt gtttga 516

<210> 1446
<211> 2235
<212> DNA
<213> B.fragilis

<400> 1446
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<210> 1447
 <211> 1494
 <212> DNA
 <213> B.fragilis

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<210> 1448
 <211> 216
 <212> DNA
 <213> B.fragilis

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 tacactaaat cactacctaa aatcaatcct tttattaatg aaaaatacct aatcaaacaa 180
 agtccttcag ttcctgttgc aatctctgac gggtaa 216

<210> 1449
 <211> 1281
 <212> DNA
 <213> B.fragilis

<400> 1449
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<210> 1450
 <211> 612
 <212> DNA
 <213> B.fragilis

<400> 1450
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 gggagaatat ggggtgaccc tggattatta taccaaaaat tactcaagat tatttcagaa 540
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<210> 1451
 <211> 1167
 <212> DNA
 <213> B.fragilis

<400> 1451

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<210> 1452

<211> 876

<212> DNA

<213> B.fragilis

<400> 1452

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gaatttgccg	gtttgtattg	tacttctgag	cgctctttta	atcgtaagtt	ccaaaattgt	660
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<210> 1453

<211> 1248

<212> DNA

<213> B.fragilis

<400> 1453

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ctgatcctga	tggtaggcct	gctcgatata	caaacagatc	tctaccttat	cattggatta	360
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ggaggccat	tgataggaac	aggtatatta	ctcctcgctt	ttcagcacta	tggtggcat	540
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aaacatatga	aaataatacc	caaagaacct	tcgaaacggg	cacaattcac	tgattttatc	660
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<210> 1454

<211> 852

<212> DNA

<213> B.fragilis

<400> 1454

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caggaaaaagc	aacagactta	ctccgagttt	ctgtcaactt	gtctcatgcg	ggaacttcgg	180
gacaaggaaa	ggagaagtta	tctgaccagg	ttgaaatttg	caggattgcc	tgcaagggtat	240
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cccgcgatga	aaacatacaa	acgaataatg	aaagcgcagc	tgctggcaat	cgatgatgtt	540
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<210> 1455

<211> 1785

<212> DNA

<213> B.fragilis

<400> 1455

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gctaatttta	gtggacgcat	cattgaggta	tgtgccaagc	aagggtgctt	ggtcaataaa	1740
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<210> 1456

<211> 459

<212> DNA

<213> B. fragilis

<400> 1456

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tcattaaaat	tactgaatat	gaaattagac	gaaaacattt	tgaagacctg	tcaaggactt	180
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caagacatca	ccactcttgt	cttgaatatc	gggcataact	ttgccaatgg	tatgaccgaa	360
cagaccttat	tggaacgtac	ccaatctatt	cacaaggaag	atttcaagtt	tggaactgat	420
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<210> 1457

<211> 2319

<212> DNA

<213> B. fragilis

<400> 1457

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ggaatgtcag	cttatgaatt	ttggaaagag	aatgtagaga	atggagtgat	ttcttggcct	180
aagaaaagaga	ctgaaataac	tgattttttt	aagtatttaa	aaggtaagga	cggtctggat	240
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<210> 1458

<211> 549

<212> DNA

<213> B.fragilis

<400> 1458

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ccgcaggag	gtgtcatcgt	ggtgaagggc	atcgagattt	ccgacgaaga	gggtacggaa	480
ggcggctccg	gcttcgacgt	ggatgtggac	gactggggag	attacgagga	catcgaactt	540
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<210> 1459

<211> 261

<212> DNA

<213> B.fragilis

<400> 1459

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gatttaaaga	atattgtctga	aaacggagta	gcaacaaagg	caaagctaac	catcaaaaac	180
gcagggtgat	tatctggata	tgattgcaaa	aatattgcat	cagccaatcc	agggaatgta	240
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<210> 1460

<211> 705

<212> DNA

<213> B.fragilis

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caagcgtttg	gcgatgcttt	cgagttcaca	cagggtggcag	tccactttct	ttgtaataac	180
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gtaacaggac	gaaaggttgt	tgctcgtaaca	aaacaaaagt	tgagttggta	tttgaataac	600

aatggagttg attctcatatc agaggttgaa agtccaaagg ggataatcgt taccgttcct 660
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<210> 1461
<211> 849
<212> DNA
<213> B.fragilis

<400> 1461
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caacttggtg attttgcccc taaatttgcg gaactcaacg acgatgtcct tttcggcgaa 180
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aaacactggc atggtgcaac agccgaaagt tggttcgcac accttgcat cgaattccc 780
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ccccataa 849

<210> 1462
<211> 186
<212> DNA
<213> B.fragilis

<220>
<221> unsure
<222> (159)
<223> Identity of nucleotide sequences at the above locations are unknown.

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cattaa 186

<210> 1463
<211> 225
<212> DNA
<213> B.fragilis

<400> 1463
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tcagtaaagt tcttaactgc actcttggtt atacagaaac ttttctactt tcaggaatta 180
atattgtcga atggatgcaa agcactaaaa actcaaagca attaa 225

<210> 1464
<211> 1911
<212> DNA
<213> B.fragilis

<400> 1464
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ccttgtcaag	tgatatcaaa	taaaaaggaa	gagtacaaag	actatttcga	ccccataaac	1140
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gctcccgtac	aggataaaga	agaatacggc	tggtacggac	tgtactttct	tgccaggtgaa	1320
accaacctcc	tgctggcgga	attcaaatta	ttgggtgccca	atctgccgat	gaccgcacaa	1380
cagtatttga	gtgcagggtg	cgagatgtct	gttcgtgggt	atgattttgt	ttccgctaag	1440
aatcatattc	cttattatga	taaaacctac	acaggcgatg	tacacgataa	gacaatcagc	1500
ctgaaagaag	gcattgattga	tgaaatgctg	tcacatgatg	cataccatct	gacaggtgat	1560
ttgagtaaag	accttgagaa	agtttatatt	cagcaatata	ttcactatct	gatgcttccg	1620
atggacatgt	ttgttaccgc	ccgtcgttcg	ggagtgccaa	tgaagaacag	taccttgttg	1680
ccatatacag	atlttgatcc	gttattgggt	gaccagtacg	tcattcctcg	acgtttcccg	1740
gtaagcaaac	ctcttgattc	tgatttgctc	cgtagacatta	caattgcagc	ctatcaagca	1800
cagggttata	cgtatgaagg	tgagatgagt	aattcacctg	tgacgttaag	caaagaacgt	1860
gtctggtatg	ataaagaggc	accggctttt	ggtacaggtc	ctcaacagta	a	1911

<210> 1465

<211> 375

<212> DNA

<213> B.fragilis

<400> 1465

gaagtggcag	tttatgataa	tttgccctgtg	tataaggctg	catatgactt	gttaaggagt	60
gtgtatgaga	agacgggaaa	gattccccgt	gatgtgaaat	atacactggg	ggaggtgttg	120
aaaaaggatc	tgaccgagat	tatggtaatg	atatacaggg	ctaattgctac	gactggaaaa	180
cttcctgata	ttgaacgggc	aagagatctg	gttgtaggag	tcaagggtccg	tttaagactg	240
ttgcaagata	tgccgcatat	cagtgtgaag	cagtatgcgg	cgtttgccca	acaggtggag	300
ttgctgtcga	agcaattgtc	ggcttggcat	gattatgcac	ggagacagga	cgcaagagt	360
caagaaaaaa	tataa					375

<210> 1466

<211> 1750

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (2)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1466

anaaccttat	ttatcatcct	cttttctttg	ggatattcag	gaatatactc	acaggaacag	60
cagggtgaaga	aagactctgt	ctaccaattg	caagagatag	tggtatcgtc	ccaacagata	120

cttgggagta	agtttaaagc	aagaaaccgc	acaggatcgg	catattatat	ttcgccctgag	180
gaaattcgca	ggttgggata	tacggatatt	aatcgtatgt	tgaaggccgt	ttcccgaggtt	240
aatatgtatg	aagaagacgg	tttcggtcct	cgcccgaaca	ttagtttgag	aggaacgaaa	300
gccgagcgaa	gtgaacgcat	ctcgattatg	gaggacggtg	tactggcggc	accggctcct	360
tattccgctc	cggcagctta	ttatttcccc	aatgtagccc	ggatggaggc	catcgaagtg	420
ctgaaaggaa	gtagccagggt	acaatacggg	ccgttcacta	cgggaggagc	tattaatttg	480
gtatcgactc	ctattccgaa	cagtttttcc	ggtaaagcga	acattttctta	cggaagcaaa	540
aatacgttta	agtcgcatac	atctgtcggg	agcagttgga	agcatttcgg	gtatatggta	600
gaatatttgc	gttatcagtc	agatggtttt	aagaaatacg	aagatcatgc	tgccaaagga	660
tttaaaagaa	atgatattat	agctaaaata	agggttaaaa	cggatcatgt	aaaaggagtg	720
aatcatgctt	tggaactgaa	attcggatac	gcagacgaaa	attcggatga	aacgtatgtg	780
ggactctctg	cagatgattt	taagaagact	ccttttctca	ggtatgcagg	ttcgcaaatg	840
gataaactta	aaaccgatca	tcggcagtg	gtagcaactt	atctgctgac	tttttccaac	900
aagttgaaaa	taactaccaa	cgcctattac	aactatttcc	accgaaattg	gtacaaactg	960
aatgatgtgc	gcgcaggaat	cacttcaaaa	gagaagagat	ccatcgccga	tgtacttgtg	1020
gatccggaqa	cgaatatccg	ttacttcgac	attttgacgg	ggaaaacaga	tcgggaagg	1080
gaagcactgt	tggttaagagc	caataacaga	acttaccgtt	ccagagggtat	acaaaccagg	1140
gccgaatacc	gtttcaacct	gaacgagttt	ttcttcgatc	tggagttcgg	acttcggtat	1200
catgccgatg	aggaagatcg	ttttcagtg	gatgattctt	actctatgaa	aaataagaaa	1260
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ttacattatc	aattgatgcc	ggctgcttct	gttttcttcg	ggattcataa	aggctttgcc	1560
cctccaagcg	cggaattata	tcaaaagcct	gaaagcagtg	tgaatatgga	actgggtaca	1620
cgtgttgcta	tcgggaattt	tagggcggaa	ctaatecggg	tctacaataa	ttacagtaat	1680
atgctgggaa	gtgatctggc	tgcttcgggt	gggggtcttc	accacggggc	tgcaaggagc	1740
cgtgcagtat						1750

<210> 1467

<211> 186

<212> DNA

<213> B. fragilis

<400> 1467

tgccggcatg	cctgcccctc	cggcaggggc	ggaccgggtg	acggcgtgtg	ttccggctctc	60
ggtacgggta	gcgggggaga	ctaccggggc	ggcgggtacag	gcggatgcga	cggtggagga	120
gaagatctct	tctgttgccg	tttttctggt	gtcgggtcgac	gggagtggaa	aggaggattg	180
gaatga						186

<210> 1468

<211> 1152

<212> DNA

<213> B. fragilis

<400> 1468

gttctcgctt	atcaggatat	cttaagagaa	aaagatctct	gtggaactct	gtgttactct	60
gtggtgaaac	accggttcaa	tcataaaatt	ttcccaacca	tgtccgataa	gtttcagact	120
ttctgttttt	cccattccgg	cagttgggtt	ctgccgttct	tgtggctttc	gttgttggcg	180
ggcttatctg	cctgctcggt	gaccggggac	gaccgtagcg	actgtcccag	tggtttccgt	240
attcgtcttc	agcctgcatt	gcacgcacag	atacagcccg	acagcgggac	aggcgtcatc	300
accgacgaga	tcgacacgct	gtccctttac	gtgttcgacg	cacagggaca	gttcgtctgc	360
ctgcacacag	agaacaggca	atcgctgact	gaaaacgatt	atatcattac	cctgccgctg	420
gaatataaag	acggagacgt	ttacgaactg	gtgttctggg	cgggagggga	caaccggcat	480
taccggatgc	cacaactcac	accgggcagt	tcgacccgtg	acgagctgac	cctccggttg	540
gaacgtgacg	gagacggagc	tcaggatgac	gcattggggc	acttggtgta	cggtcatctc	600
cggttgagcc	ggatacagcc	ttcggaaactg	acatcggtca	gcgtaccgat	gttgaaggac	660
agaaaccggg	tcgtcattac	cttgacacgat	acgtcggggc	aggggctgga	cgccgatgat	720
tacgacttta	cgctgttggc	ggataacggc	cggatgaatg	ctgacaacga	agtgatgacg	780

ggcgaccggg	tgacttatgc	cgcctatcat	accgagtcgg	cttccgaaac	ggaaccggcc	840
gccaccgta	cgggagaagt	cagcctagcg	cgtgcccgt	tgaacacact	gcgcttactg	900
gcgatcagg	aggcccgct	ggtggtgacg	gaccgtgtct	cggggcagaa	agtagtggat	960
gtcgacctga	cgcgttatct	gctgatgacg	cgccccctgt	ttgaagagag	caacgggtgtg	1020
gagctcagcg	accaggatta	ccttgattac	gaagatcggg	tcaacgtgat	tttctacctt	1080
accccgatgg	gaaagctgga	ggcgctgaac	attaacggat	ggattatcag	actgaacgat	1140
gcacaactgt	aa					1152

<210> 1469

<211> 879

<212> DNA

<213> B.fragilis

<400> 1469

cgtaaaaaag	aaatgaaaaa	actaaagtac	atgagtatga	tgggggttggc	tgctttattg	60
ctgacaacct	ggggcgccgtg	ttccgacgat	acggatgctt	cgggcgaggaga	gaatccggaa	120
gaagcgagag	cttataccac	agtgaccatt	gccgtaccga	atggtgtggc	ggagacaagg	180
gcctccgatc	cgacggcgga	tactgacgat	acgaatatgg	atatcggttt	aacggatgaa	240
tacaaagtga	cgaaggccaa	tctgtatctg	tttccgggag	gaacgggtag	tagctttggt	300
agcgctaagt	tgacagagat	tatttccatc	agccagttta	cgcaaaccac	cactactact	360
accgaccaga	agaccattgt	atggaccagt	aagaaaacag	ccctgacccc	gggagactat	420
cgtatttata	tagtggtgaa	cggtacggtc	aatgggggtgg	gtgacagtga	caaggggaact	480
ctgaccgaag	ctgcttttct	cgcaaagaca	acggctgctg	ctacgagtgt	gatagctgct	540
gtaccgagtg	acggactggt	aatggcgagc	cgttctccca	acagtaataa	ctcgaatact	600
cttccttata	ttgcccagga	gataaccaaa	gaccgggagc	agaccattgc	ggcaacagtg	660
gagcgtgtga	tgggaaagat	tacgggtgact	gcgggaggaa	ccagtgcgtc	ttctgctgct	720
actgttaata	aataacttct	gttttctacc	acagtagctc	agatcaacaa	tattaaggat	780
atcacccctaa	aaactcatta	tgtagtccac	gccggaaaag	agggatatta	tttccgtcat	840
gtggataaag	aaagctctgc	aacgaatcct	ttgacttag			879

<210> 1470

<211> 753

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (170)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1470

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ggcaattggt	atctgcaagg	atcaagcgca	tttggcttgt	cgtctttcgg	cactttttcc	120
ggaacttata	cggatatgcc	gggctactct	tccggggcgg	tggaaaactan	agtcgccgct	180
tactgctatg	aaaacacgat	gctgaaggat	aaacagaaga	acggatatac	aaccggcatc	240
gtattttaaag	cggaaatagc	tccgagtaaa	atgatgaaaa	aaaggctctc	gggcgggtggt	300
gtggaagaaa	ctactacaat	tggttcgatt	ggtgaaatct	tctaccattc	cggtatcttc	360
tacaaagata	ttgaagcgct	gaaagaagcc	ggtgtattac	tggcagacgg	aactacttcc	420
agttcggcca	gcggtgtccc	tgccgacctg	aaaaagaacg	acgtccagtg	tttcaagaaa	480
ggaaataccg	atggcaagtt	cttttgttat	tatccgtatt	ggatcaaaaca	tctcccctcg	540
gatacagcag	aagatgtgat	ggagtccggc	attgtccgca	acaatgtcta	tcaagtaacc	600
gtcgccagta	ttcaagggtg	cggcaaagac	ggtgtaaccg	aaaatatcat	taccgatacc	660
gaaaccgatg	atccgactac	cgtattgctg	aatgtgaagt	taagtatcaa	accttgggta	720
gtgcgtgcga	atagtgccgt	attgggccgt	ttaa			753

<210> 1471

<211> 1488

<212> DNA

<213> B.fragilis

<400> 1471

atatcgggga	gcgaacaaga	aaaattttct	ggcgccgacc	cgtgcgggca	tcagtctgat	60
ttatatgtta	aaataaaaaag	tcttatgaaa	gagaagatac	gatcgacccg	tttaagaatg	120
tgctttcggg	agatgccggc	ggcagtggtc	ttcctgacgc	tctttgcaact	gtgcttcggt	180
gcgctgtctg	tccgtgcggc	agatccgtcc	ggaagagtag	ccctttccgc	cgtccgaatg	240
cagcgtgcgg	gtggacaggt	atatgtctcg	tttgccgtaa	agatagcccc	ccgtgcagtg	300
cgtgcccgtc	accgctgggt	gattaccctt	tgtctgggca	acgcctcgga	tagtgtgttg	360
cttgcccgt	ttgtggtgac	gggacgcac	atggcgcgcg	aggaaaatca	gcggcgccca	420
ttggccggcc	ttccggaccg	tgacgtcaat	catcggtgga	ccgccgcaa	tggagacacc	480
ttctgtata	ccgatacgtt	gcgctatgcc	ccgtggatgg	agaatggctt	gaacctgcgg	540
ctcgacatcg	accgggaagg	ttgctgccgg	gtacagacag	tgggaagcat	cgtctcctcc	600
ggcgcttttc	cgggtggcttt	gccctatcgt	ccgtcgggta	gtgagctcac	tccgaggggtg	660
agccggacgg	tggcggaaca	tgccgatgac	tatccgttcc	tgtgcgaggc	aggcagccgc	720
ccccctgcat	aaagtggcat	cggatattcg	ttccgtgcgg	catcggcagt	ggtggatacg	780
ctgtattccg	ccaatgccgg	aaacctgcgc	cggataacgg	aagccatcgg	gttgctgcgt	840
gcggacagtt	gcgcatttct	gcaaggatc	tccatcagcg	gatatgcttc	gcccagagggc	900
acgacgggac	tgaaccggaa	attatcggcg	aaacgtgccg	aagctctgcg	gcatgctctc	960
tcggtgcgca	tgaacctgcc	tgtatcggtg	tttgaactga	atgccggagg	agtagactgg	1020
gacaggctgg	ccgaactggg	gaatgggagt	gacatgacat	ataaggagga	agtgcctcgt	1080
attctccgca	gtcatccgga	ggaagagcgg	aatgacaggc	tgaagccctt	ggcgggcggg	1140
cgtccgtatc	gttcggtgct	ggatgtgctc	tatccgcagt	tgcgcgatgc	ctgctacatc	1200
cgtgtgcagt	atgccaaccg	ccctgacagc	gtggcgagga	cggatgaaccg	tgcgatagaa	1260
gccattcggg	ggcggaagta	tgaagaggca	ttccggttgc	tgaagacggt	ggagggcgac	1320
gaacgctcgt	ggaatgtacg	gggagtctgc	catctgttgt	gcggagacga	caaggaagcc	1380
gggctatggc	tgcatagagc	ggtgaaagcc	ggaaaccggg	aagcggaaga	aaaccttaaa	1440
aagatgaatg	cggaaacgacg	ggccgctacc	atcgggtataa	cgcaataa		1488

<210> 1472

<211> 339

<212> DNA

<213> B.fragilis

<400> 1472

gccccgctat	tgcctttgtc	aagtcattct	acggacacct	tcttgggtgt	acatgcgggt	60
gggggagaat	ccaacctgag	ccgggtgcat	ctcctttttg	tttcccgttg	ggtttcttcc	120
cgctacgagg	ggtgggcgct	gatgccgggg	ttttcatcgg	gttactcgtg	ggtgctcggc	180
aaacgctgga	atctggaggc	taccataggt	gcagggtggg	tgcatgccca	atacaaactg	240
tttaattgtc	cggctctgtg	tgaatatcgg	ggagcgaaca	agaaaaattt	tctggcgccg	300
accgctgcgg	gcatacgtct	gatttatatg	ttaaaataa			339

<210> 1473

<211> 1035

<212> DNA

<213> B.fragilis

<400> 1473

cgtactgcgt	cgccgtttct	tccatccggc	acggcgtctg	tgaacggaag	atctatgaaa	60
tcgtcggaag	attcaaaaag	gagtgtacgc	tccatgcagt	ataaatgccg	tccgtttttt	120
gttttcatgg	gaaaaactga	agaattttgc	tgcccggaaa	tacaaacaca	tatattacac	180
gacaaaatga	ttatgaaaaa	ggaaaagact	tactcccgtg	ctccgctccc	tttcgtgggg	240
cagaagcgca	tgttcgtatc	ggaattcaaa	aagatcctga	aacattttga	tgacaaaacg	300
atatttgcgt	acctgttcgg	cggctccggc	ctgctatcac	acattaccaa	acgtgaaagg	360
ccggatgcgg	tggtcatata	caatgacct	gacaaatacc	gcgagcggtt	ggaaaacatt	420
gaccggacca	ataccctgct	gagagatctc	cgtaaaatag	tcgggatata	tccccccat	480
cagaagatta	cgggaaaaat	gcgcgaggct	ttccttgaac	gcatcaggct	ggaggagaca	540
accggtttgc	tggactatct	taccctctct	acttccctac	tgttttccgg	aaaatacgca	600
caaaacatgg	aggaacttga	aggattgtat	ttttataaca	agatacgcca	gtctgactac	660
cgggtgtgacg	gctatctgga	cgggcttgag	gtagtctgct	acgactataa	ggaactggca	720

gacacatacg	gggtgtttcc	gggagtggta	ttcctggttg	atcccccta	tatgggaacg	780
gatatcagta	catacaagat	ggactggaag	ctggcggatt	acctggatgt	cctgctggta	840
ctgaaaggac	accggtttgt	ctatttcact	tccgggaaat	cccccatact	ggatttttgc	900
cgctggatgg	aagagcatcc	cgggatcggg	aatcctttca	agggagccgg	ccggtccaca	960
cttaccgcac	ggatgaatta	caactcctcc	tataccgata	tcattgctcta	caaagacctg	1020
ccaagggcgg	cctga					1035

<210> 1474
 <211> 264
 <212> DNA
 <213> B.fragilis

<400> 1474	
gcgcgcggca	caaccacata catacagttc attacacttt cgcgccattc aatgggtacgt 60
gcgacaacgg	ttgcaccatc cttgctcttc aaggtaatac ccgtacaggc tcccgcgggt 120
atgtgcggaa	cgctacataa aactgacatc aataatgctg ataattttgt attcatactt 180
tctattttta	tggctgttta tggtagtgta acacattcca ttcccgaaag gttgattaca 240
atagagagta	attattcatt ttaa 264

<210> 1475
 <211> 435
 <212> DNA
 <213> B.fragilis

<400> 1475	
aatttgaaaa	cgcataaaga agtaacttca aataaaagta aaacactgga ttttgtaata 60
agtaaaacaa	tgaataatatt tagatatata ttgctcgctt cgcttacctg tacgcttttc 120
tcattgcggc	cggtatgaact gataccggaa tccgtgccac cgggtggtgaa tcccggggat 180
aaggacgagc	cggttgaaaga accggaggag ccggaagagc ctgaaaagat acagtttagcc 240
atcaccgcat	cattgcagaa catgcagcag accaggggaa tcatagaggc ttttgctccc 300
ggccatgaaa	tgggagtcct tgtcggaaac agtcagacag atgaagcagc aggtataaaa 360
aacgcctcct	atctttttga tgggaaagta tggaaatgcc gacaggatgt accggtggaa 420
gcggacgccc	gtctt 435

<210> 1476
 <211> 351
 <212> DNA
 <213> B.fragilis

<400> 1476	
catacagatg	cgcatacccg caccgaccgg ggtaaatacc cttgtcgcgg gatgcgcttt 60
tatctgtata	tgaatgattg gctttgcaaa gataaaaaaa tattcgctat gacactattt 120
gagattttta	atttttaatag agaactactg gaacgtctga cccgcatggg tttcaaaccg 180
gatgactata	aatatatcga cctgtacaag gagtatgaac agatgcgccg gcagggtgat 240
aagggtgacg	actgcgtcgc cgttctctcc atccggcacg gcgtctgtga acggaagatc 300
tatgaaatcg	tcggaagatt caaaaaggag tgtacgctcc atgcagtata a 351

<210> 1477
 <211> 1101
 <212> DNA
 <213> B.fragilis

<400> 1477	
acgaccatta	aaatagaaag tatgaatata aaattatcag cattattgat gtcagtttta 60
tgtagcgttc	cgcaaatacc ggccggagcc tgtacgggta ttacctgaa gagcaaggat 120
ggtgcaaccg	ttgtcgcacg taccattgaa tggcgggaaa gtgtaatgaa ctgtatgtat 180
gtggtttgtg	cgcgcgctca agagtgtcag tccactgact cctccggtat ggatggactt 240
aagtttcagg	caaagcatgg ctttgtgggc ctggcggtag agcagaagga atttgtggtg 300
gagggcatga	acgaaaaggg actttccgcc ggattatact attttccgaa ctatggttagg 360

gacacatacg
gatatcagta
ctgaaaggac
cgctggatgg
cttaccgcac
ccaagggcgg

gcgcgcggca
gcgacaacgg
atgtgcggaa
tctattttta
atagagagta

aatttgaaaa
agtaaaacaa
tcattgcggc
aaggacgagc
atcaccgcat
ggccatgaaa
aacgcctcct
gcggacgccc

catacagatg
tatctgtata
gagattttta
gatgactata
aagggtgacg
tatgaaatcg

cgcatacccg
tgaatgattg
atttttaatag
aatatatcga
actgcgtcgc
tcggaagatt

caccgaccgg
gctttgcaaa
agaactactg
cctgtacaag
cgttctctcc
caaaaaggag

ggtaaatacc
gataaaaaaa
gaacgtctga
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atccggcacg
tgtacgctcc

cttgtcgcgg
tattcgctat
cccgcattgg
agatgcgccg
gcgtctgtga
atgcagtata

gatgcgcttt
gacactattt
tttcaaaccg
gcagggtgat
acggaagatc
a

gtcagtttta
gagcaaggat
ctgtatgtat
ggatggactt
atttgtggtg
ctatggttagg

tatcctgttt	atgatgcggc	acagagggac	aagagtcttg	cggattttca	gttgggtatca	420
tatgtgctgg	cagaatgcag	cacggtagat	gaagtgaagg	aggccctttc	gcaggtgcgt	480
gtcatcaata	ttgatccccg	ttcgtccacg	gtgcattggc	gctttaccga	agcatccgga	540
agacaggtgg	tggtggagat	tgtaaatgaa	atgatgaact	tctacgacaa	tccattgggc	600
gtgttaacca	attcaccggg	tcttgaatgg	cattggacca	atctgaacaa	ttacatcaac	660
ctacaaccgg	gcacgttacc	tgaacataac	ttcggggccgt	tggagccgaa	gtctttcggg	720
catggcagtg	gtctgctggg	acttcccggg	gattttacac	ctccatcccc	ttttgtgcgt	780
gccacctttt	tccaacttac	ggcaccacaa	caaccgatg	caaaaggaag	tgtgttccaa	840
gcgttccata	ttctgaacaa	ctttgatatt	ccgacgggta	gtgaacagcc	ctggggaaag	900
gcgtcagcca	atgtaccgag	tgccaccag	tttaccgttg	cgtgcgatat	acgggaccag	960
aaggtttatt	atcgtaacct	gtacaacagc	aacatccgtt	gcattgattt	gaaaacgata	1020
aatttcgaca	atgtaaaata	tcaagcggat	cctttggatg	aaacgaagga	gcaaccggtg	1080
gaaatgaaag	tgataaaata	g				1101

<210> 1478

<211> 189

<212> DNA

<213> B.fragilis

<400> 1478

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tacatggcaa	atggtaaaga	gaatgtcaag	cgtaaccgta	tgaaagggtc	ggacaagaca	180
aagtactaa						189

<210> 1479

<211> 426

<212> DNA

<213> B.fragilis

<400> 1479

ctcaataaga	agaagctaag	ttttctattt	ctaaagggtga	taattacaga	agctatcaaa	60
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gaatataatt	tcacaaaatc	catgatagca	aatcttttgg	ataaacaaga	aaaactctac	180
cttgtaccct	ctactaaaaa	ggaaaatgaa	cttttagcag	ggattatcct	taatgatgaa	240
attattttatc	tactaaaatt	ttcaaaggca	tctgataaca	tttatactct	ttacaacgaa	300
acaaacgaac	ctatatgcga	tgtcaaatat	gatttttgaaa	aacaaaatat	agttattatt	360
agcaactatg	gaaatgatgc	tatccccctt	acaacacaag	ttggtacagt	tttgtttgta	420
atatag						426

<210> 1480

<211> 816

<212> DNA

<213> B.fragilis

<400> 1480

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gtcgcaaaga	caacctcgct	gctgaacctg	gcagccggga	tcgcacggat	gtataagaaa	120
agggtctgca	ttatcgatgc	ggatccgcag	gcgaatacga	caatggcagc	gttcggggag	180
gaaatggcaa	gccttccccg	ggaggttctg	ctcgagagtg	cgctacagga	ctgtatgcag	240
gacactccgc	cggagttaaa	gccgcaaaag	tggctggaga	aggtggacat	actgccggcc	300
tccctggatc	tggcggctac	ggaagtaatc	atgtacacca	caccgggaag	ggaattcctt	360
ttcaggga	tagtaaaggg	gctggaagag	aagtatgacc	acatacttat	cgactgtccg	420
ccatcattgg	ggatcatcac	gcagaacgcg	ctgattggca	gcgattacgt	gatcatacct	480
acggacggga	attacttcgc	catgaaagga	attgaaaaga	tacactatat	catcggcctg	540
ctcaaaagga	agctgggagc	cgaagtccgg	atactcggat	actttatgac	caagtacaat	600
gccaggagaa	agctggatat	ggatatcagg	gagagtctgg	taagaagttt	gggagatggg	660
gtcttcgaaa	cggtaatacg	cagcaatgtc	gccctgggag	aggcacaata	caaggcacag	720
agcatatttg	actatgcgcc	ttcctcaaac	ggggctgatg	actacaggga	gctgggtcaag	780

gagttcctgg gcagaattaa aaaaataaat aaatag

816

<210> 1481
<211> 294
<212> DNA
<213> B.fragilis

<400> 1481
aagaaaggca ggattatgaa agactttaca tcgaaaggaa tatccctgga aaacatggtg 60
ggagaaaccc cggaagaaaga aaaagggtatg acaggaaaaa catcacccaa aacgaaccag 120
accgttgacac tgacggaaga tctgaaatgg gagttacgga cgttcgcttc ggaccatcgc 180
tgcaggggag tcaagacact gcttgaaaacg atgatagaat gtttcgtcag ggaagacggt 240
acgcttgacc gtgacaagtt agaaggcttc tggcgggaa atgtcgaaaa ataa 294

<210> 1482
<211> 1569
<212> DNA
<213> B.fragilis

<400> 1482
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aaaccacttg ccgctcagaa taaaaagggt tttatcatcg ataaacagac cgtctatcaa 120
gaaatagaca acttcagcgc ctcagacgct tggcgctgcg ccttcattgg taaaaactgg 180
cctcaagaga aaaaagaaaa aattgcccgc ttactattca aacgtgaatt tgacgaaaaa 240
ggtaacccca tcggtatggc cttgactaac tggcgcgtaa acatcggagc cggaagctac 300
gaaaaccgtg aagcaaaagg ggtggataac tcctggaaacc gtaccgaatg tttcctctca 360
cccgatggta aatatgactt taccaaaaca gctggacaac aatggttcat gaaagcggcc 420
cgtgaacgag gcatgaacaa ctttctgttt ttcacgaact cagctcccta ctttatgact 480
cgtagcgttt ctacagtttc tactgaccaa gattgcatca atctgcaaaa tgataaattc 540
gatgactttg cccgttttct ggtgaagagt gcccaacatt tccgtgaaca aggctttcac 600
gtaaattaca tcagcccgaa caatgagcca aacgggcaat ggcatgccaa ttccttccaa 660
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aaagacggac aatacagcgt gctgaagttc aaaaacctgt ttaattgtgt agcagcacac 900
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aactacagtt tctttgtgcg tccgggtatg aaacgtatcg ccgtaaaacc tacctataag 1320
gtaagtgact tggaagccgc tacttcactg atgatttcat cgtatactga tgggaaagaa 1380
gtggtgaccg tagccatcaa ctattcaaag gaaaatcagg tgattagcct aaactgtgac 1440
catgccccaa aaggaaaagt ttatctgacc accatcgaca agaactctcg atacatgggt 1500
gaacaaccgc tgaaaaagtt acagctgcca gcacgttcgg tagctaccat tgtagtcgaa 1560
gacaactaa 1569

<210> 1483
<211> 222
<212> DNA
<213> B.fragilis

<400> 1483
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cagagcaata agctacagga catcgatttc actatggaca gctaccattt caatgggttc 120
aaagtgggca ggcgtttcag ttattctaag tttggtacaa ctcttttttc gtgggctgta 180
ccgcctctgt ttgccagtgg aagcctctgc tgccggatat ga 222

<210> 1484
 <211> 1269
 <212> DNA
 <213> B.fragilis

<400> 1484
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 gacatcccc tggttacaga agtgggttcct tctttggaag atgccaaact gccggctaata 120
 ccagaaactg atgtagtgga attcatcctt gatgaactaa atgacatcac caaagacgga 180
 gcactggacg taagtccaaa acagaaagga agaattacac gcggtgctgc tttggccttg 240
 aaggtaagat tgtgtctgtt ctacaaaaag tatgatgaag tgattgacgc tgccaatgaa 300
 atcaatagct tgggtgtgta taatctgtac caagaagggtg aagttcctta ctctgaattg 360
 ttcaaagaag ccaatgaaga caactgcgaa atcattctgg ctgtaaagaa agtaatgaac 420
 gactacaaaa accaaaccat cattgaattc tgtaacgtaa ttgatggcgg ttggtcggca 480
 ttcgtaccca tccaatctct gattgatgca tatgaaatga aggatgggtct gacaatcgaa 540
 gaagctcagg ctaaagggtga gtataatcca gaacatcctt acaaagatag agatcctcgt 600
 ttctatgcta caatccttta ctcggtgctt gattggatgg ataacaaggg tagaaagaga 660
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 tatgcttcta accaagggtac cgtagatatg gatacaagca ttccccaaga ggagcgtgct 1140
 acaattttcc aagggtgaaaa gaaccagggtg gtactcgaga tccgttaaatt caggaaccgt 1200
 tacatgccga ttccacaagc tgaattggat aagaaccgga acttgaaaca aactaacttc 1260
 aaaatataa 1269

<210> 1485
 <211> 246
 <212> DNA
 <213> B.fragilis

<400> 1485
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 gtctttccca aagataccaa tcacataaaa atccccgaca gccgtcacgg acaccgggga 120
 ggtataaata aatggactta tttatttata aaatcgtcca cccggccgat ggcctatcag 180
 ccggatggag atagagggtca aaacttaaat ccgatcttaa atgtcggagc ggccagcaca 240
 ctgtag 246

<210> 1486
 <211> 459
 <212> DNA
 <213> B.fragilis

<400> 1486
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 tgtgattggt atctttggga aagactgaat ggtatttgga atatgaaaa gagtaatata 120
 tacatagggt aagtataaaa acaggtcata gccgaaaagc aggtgacaaa ggccgagctt 180
 gcccgtaggt tgggggtaaa accacagagt gtggactatc tgctgacacg gaaaagtatc 240
 gatacggata ccctgtatag cttgtcgttg gcgctggatt atgatttcgc tgttttatat 300
 tccataaaga aagaacatgc tcttgctacg gacgaagagt ctccgtttta agtgggaaat 360
 gcaaagatca gtttagagat cgagttgcgt cccgatgaaa tgttgaaatt gaacctgaaa 420
 cagaagattg cagacctgtt ggaaggaaa ggaagtgaa 459

<210> 1487
 <211> 2250
 <212> DNA

<213> B.fragilis

<400> 1487

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cgccatccaa	tgaccgttat	aagatgccgc	atcttttttg	tccaccagtt	cgggtccggc	180
aatgcttctt	ttagccccgg	tctgattcag	gaaattgata	accgtggcac	tcaacgcaag	240
atgcttggtc	accgtccagt	tgataacctc	gaaggtttcc	cagcgtccgt	tgaaatagta	300
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aatattccct	gtggcatcga	tctccccac	cgtaccgtct	ttaaagggtca	cactcgtttc	480
atacttcttg	taagtccggac	tttgataagt	gaagaggaag	tgggaagttga	agcccttaaa	540
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cttcgagata	taagagaaca	gagagggtcag	actgatccaa	tccgtgttat	aatagatccc	720
ggcacgtccc	aggggaacag	agattttatc	ggtattgggc	atagtggccg	gtgcaaagtt	780
cgacaagccg	ggacgctgtg	tggtgtaagt	gaaatcggcg	gtaaaaccaa	attcacgggt	840
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gggagtgatc	ctgactcctt	tatcggacac	agctcccagg	taataatccg	gaaaacggcc	960
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cagacgggcg	ccataatata	cgttccactt	ggcgaaata	tcccaatcgt	gagtggcata	1080
aacagccagt	ttgttttcat	gtcctttata	atattccgaa	gcattcttat	tgaaatcgta	1140
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atttacatta	tgccgattag	aggtatagac	tacggggagt	ccgttttcga	gtacatttac	2160
gtctccacct	ggcaagccga	tagagatttc	gcggggacca	ttggcgctcg	aagcgttcag	2220
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<210> 1488

<211> 411

<212> DNA

<213> B.fragilis

<400> 1488

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tactataaa	ctgatcataa	ctattctgtt	cagaacacat	tggcttatac	attacaaact	180
atagctgatg	gcttggctga	ttatgatcag	ttgattttag	tccagaaaca	agctattgct	240
gctgctgatg	aaaatatagc	taatgccgct	tcagttgtat	caaaggaaca	ggctattgct	300
aatcaggaga	aaaccattgc	tgaccttgaa	aatagtttgg	ctgtaaatga	acctatttac	360
aatgattatt	tagctcagat	caaagcttta	gtagggtgact	ctgcagaata	a	411

<210> 1489

<211> 786

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (510)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1489

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gtagcagcta	ctgttgata	caatagttac	acaagtgtca	cagccccctc	ggggctgctg	180
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<210> 1490

<211> 795

<212> DNA

<213> B.fragilis

<400> 1490

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caagaaggcg	acagccttac	ggtgattcat	attacaaatc	ctacacagta	tttacttttg	180
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cgcgatacgc	tgggacatat	tttctccggc	agttcagtag	tggatgatgc	caatacagcc	660
ggatatgggg	caggggcca	cgttgccctc	tacactcgg	ccagtgataa	gaacgggcag	720
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ccgtcttcac	cacgg					795

<210> 1491

<211> 2373

<212> DNA

<213> B.fragilis

<400> 1491

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gcttgcttgc	tgatagcggg	cttcacagct	gcacaggaaa	agaaagaatc	tgctcaaaca	180
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gaacgtctgg	tacgtgaagg	gaatacagat	ggtgtatatt	acgatttcaa	taagaatgct	1320
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gccgatttca	cttacaacac	acagcgctcc	ggcttgtcga	actttgcacc	ggccactatg	1680
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cgtactttca	gcaagacgta	tgccaacatt	aaaaatgctt	actatttcaa	cggacgctgg	2160
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aaaaaagatg	cggcatctta	taacgggtcat	tggatggcgg	gcagttatat	tcgtccgttt	2340
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<210> 1492

<211> 384

<212> DNA

<213> B.fragilis

<400> 1492

atccgcagca	cccccaaggc	gatttcttca	caataccttt	accagatatt	tcgatacgac	60
ctacttttag	taaaaaggag	ggagtcatgg	ccccatttcc	catgctccta	ttattttccc	120
gtggtcgtca	atcttcgcga	ctttgatttt	aaacaccaac	ttccttcatt	gaactactat	180
cctctaaatc	cttttaggtg	aaaaatttta	ctcaagtgtt	caaccagccg	tttattccgt	240
tcttcgtttg	cacgaaatat	taatccttta	ctggaaaaat	cccgttgtca	acagactccc	300
actgtcaaga	ccctatttta	ccgtaccgcc	ttaacaatac	gcctggcacc	tggttcatgg	360
aacaatccct	acaccctctg	ttaa				384

<210> 1493

<211> 1203

<212> DNA

<213> B.fragilis

<400> 1493

actaatactg	cgattgttat	gaatactaca	gaatatttac	agacttggtc	tgactcttat	60
aaaaatgaca	tgataagcaa	tatcatgcc	ttttggatga	aatatggttg	ggatcgcaag	120
aacggagggt	tttatacctg	cgctcgaccgt	gatggtcagt	tgatggatac	caccaaactc	180
gtttggttcc	aaggggagatt	tgtcttttaca	tgttcatatg	catataatca	cattgagcgt	240
aatactgaat	ggttggcagc	tgcgaaaagc	actctcgatt	tcatagaagc	acattgtttt	300
gatacggatg	gacgtatgtt	ttttgaagta	accgagaccg	gattacctat	tcgtaaactg	360
cgttatgtct	tttctgaaac	atttgctgct	attgcaatgt	ccgaatatgc	cattgcatca	420

ggagatcata	ggtatgctgt	aaaagctttg	aaattgtttca	atgatataccg	tcacttcctt	480
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ttggatcggc	aaatagagga	gtctatagcg	attctgcgca	aagactttat	gcacccggag	660
tttaaagctc	tgcttgagac	tgtagggtccc	aatggagagt	ttatagatac	gaatgccact	720
cgtaccatta	atcccggcca	ttgtatcgag	acctcatggt	ttattctgga	agaagccaag	780
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ctccatcgtg	acggaacgat	ttctcagcct	gcgaaaggaa	atctgtttta	gggaccattc	1140
cacattccta	gaatgatgac	gaaaggctac	gcactttgtc	aggaattact	gtcagaaaaa	1200
taa						1203

<210> 1494

<211> 222

<212> DNA

<213> B.fragilis

<400> 1494

cgaccacggg	aaaataatag	gagcatggga	aatggggcca	tgactccctc	ctttttacta	60
aaagtaggtc	gtatcgaaat	atctggtaaa	ggtattgtga	agaaatcgcc	ttgggggtgc	120
tgcggatcta	tcctttctaa	tatgtatcaa	attcgggatt	tcaatggagc	attattgaca	180
atggttggtt	tcttggaac	agtagacggg	cgttattcct	ag		222

<210> 1495

<211> 1254

<212> DNA

<213> B.fragilis

<400> 1495

cctcttattt	ttatcatgaa	aaactcaaaa	atztatcctt	ggatagtggg	tgccctcctt	60
tggggggtag	cctactcaa	ttatatggac	cgacaaatgc	ttagcacaaat	gaaagatgct	120
atgcaggtag	atattgtgga	acttcagtcg	gcaaccaatt	ttggccggtt	aatggctggt	180
ttcctttgga	tttatggcct	tatgagcccg	atctccggta	tgattgccga	tagattgaat	240
cgtaagtggc	tgattgtcgg	cagtcttttt	gtctgggtctt	ttgtaacctt	tttgatgggt	300
attgcagaaa	catttaatat	ggttttttgg	ctgcgtgcat	taatgggagt	gagcgaagct	360
cttttatatt	cggccgggtc	ttctcttatt	gccgattatc	atactgaaaa	gtcacgttct	420
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gctactgttg	ccgctgcttt	ctcatggcat	accacattcc	attggtttgg	tattattggg	540
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gaacgtttga	aaccttcata	aaagaatggg	gaaaaagctg	gcttgtttaa	aggtttgtcg	660
ttgctgttca	gtaacatagc	tttctgggtg	atattacttt	atctttgcagc	acctagtttg	720
ccgggttggg	ctactaagaa	ttgggtgcct	actctgttcg	ctgaaaatct	tgatattcca	780
atgtcacagg	ccggacctat	gtcgactatc	acgattgcat	tatcttcatt	tattggcgtg	840
attctaggtg	gtaccctttc	tgacaaatgg	gtacaaaaga	acatccgtgg	tcgtgtatat	900
accggtgcaa	taggcttggg	attgactatt	ccttctttat	tgttattggg	attcggggcat	960
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gctaataata	tgctatttct	ttgtcagttt	gtctcttcaa	agtaccgtgc	gacagcatat	1080
ggtatcatga	atatgaccgg	ggtattttgca	ggagcgttta	tcacggattt	gttgggtaag	1140
tggaccgatg	gaggaaaatt	aggtttaggt	tttgccatgt	tagctatcat	cgtattttatt	1200
gctttggcag	tgcaactcta	cttcctgcgt	ccgaagacag	ataatatgga	ataa	1254

<210> 1496

<211> 450

<212> DNA

<213> B.fragilis

<400> 1496

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aatcagtgtc	gtatgtataa	agggggtaag	tttgatatgc	ttcacggaca	agataaaaacg	120
atccttccat	gcctagctat	gggaggtccc	cagggaggta	ttggaggaaac	tgccaactac	180
aatgggtgtaa	atctggttgg	tattatagaa	gcatggaaag	caggtgatct	tgagaaagca	240
cgtgaattac	aaaatttctc	tcaggaagtt	attaatgtca	tttgtcattt	ccgcgaaaat	300
atcgtagggtg	gaaaacgaat	catgaagttg	ataggattgg	atttgggtaa	aaatcgtact	360
cctttccaga	atatgacgga	cgatgaagaa	gtacgtatga	agcccgaacc	gcaagccatt	420
catttcttcg	atcgttgcaa	taagtttttaa				450

<210> 1497

<211> 453

<212> DNA

<213> B.fragilis

<400> 1497

aaggaaatga	ttgtatctaa	tttgcaaaac	agtcaacggg	tggaaggact	ccacccactg	60
tttaaaactc	tgtttgatta	cgtaaaaaca	catgatttat	ttcatgccga	attaggacga	120
attgagatag	atgggtgataa	tttattttatc	aataacgtga	atcctgagtg	tggtgcacgt	180
gacaagcaag	ttttggaact	acatcgcgat	tatattgatg	tacatatattt	gttggaagggt	240
actgagacta	ttggttgga	ggctatcgaa	gatctgaaaag	atgaagtga	accttatgag	300
gcgaacgggtg	attgtgctct	ttactctgat	gcacctacca	cctttgttga	tttgcttctc	360
gggcaattca	tgatagtata	tcgggaggat	cctcatgctc	ctcttatagg	acaaggtaag	420
attcgtaaat	tgatagcaaa	agttaaattg	tag			453

<210> 1498

<211> 2094

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (2002)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1498

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gatgctagcg	gtgaatcagt	catcggagcg	agtgtgtcgc	aggtcggtag	caccaatgggt	180
gtgattactg	acattgacgg	taagtttacg	ttgtcgggtc	atcctaaccg	aaagatcaga	240
gtatcttata	tcgggtatca	gcctcaggta	cttgatgtaa	agggcaaaaa	ttcttttaaat	300
attaaattga	aagaagactc	tgaaatgctg	gaggaaagttg	ttgtaacggg	gtatgggtggc	360
aaacagctgc	gtacgaaagt	gacgaactct	attgcaaaaag	taaaagatga	agcattgaaa	420
gtcggcttat	tctctaacc	cgctcaggca	ctctccggag	cagttgcagg	tttaaagggtt	480
acccaagcct	ctggtagccc	gggtgcggct	cctaaagtaa	cgcttcgtgg	cggtactaac	540
ttcgaatggtt	caggtgaccc	tctggttatt	gtagacggac	aattgcgtga	cggtatgcag	600
gatatcaatc	cggaggatat	tgaatccatg	gaagtcttga	aggatgccgg	agcaaccgct	660
atztatgggtg	cgcgagcaag	taatggcgta	attttaatta	ctacaaaaac	aggtaaagaa	720
ggacgtcgcg	aaatcaactt	caaagccaaa	atgggtttga	gctatgtaaa	taacccttat	780
gatttttttg	gagccaaaga	ttatatcaac	gtactgcgta	caggctatag	taaatccgga	840
tttacaacct	cagacggaga	gtatgtctct	attgccccac	ttggtaactt	gacaagtgtc	900
tctccattcg	gtactggtaa	tacactgaat	gataaaacga	tctggaatat	tatgaataaa	960
acggcagaca	atgcctatct	gttacagaaa	ggatggcaag	aaatgccgga	tcctctggat	1020
cccagcaaaa	ccattttata	taaagatact	aatccggcag	attataacct	gaataatccg	1080
gcaatatctc	aggcataaa	tatcaatgat	tccgggggta	atgataagg	tacttactat	1140
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agttttgttt	tgaatgccag	ttataaaaatt	acagattggc	ttaccagttc	atccaatttc	1260
aattataacc	gtgcaaattg	gaaaaacatg	ccgggatcac	aaaccagtga	aggcaattac	1320
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ctttctgtaa	aaggtactgc	caactgggtat	tactccgaat	cattggctga	aagtttcacc	1560
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ggatattcat	ctttattagg	tgacaaccgt	tggggatttt	tcccgggagt	ttctgccgga	1980
tggatttttg	gacaagaaaa	tntcgtaaaa	aatgctctgc	ctttcctgtc	atgttggtaaa	2040
ttacgtgcga	gttatgggtg	aaatggtaac	tcaaccggaa	ttggtgcgtc	ttca	2094

<210> 1499

<211> 222

<212> DNA

<213> B.fragilis

<400> 1499

agcctaaggt	ctatcggttt	aaaaccaaga	cccccttctc	ttgaaaccaa	cggaactttg	60
gttttaaaag	tattttcacg	ttggtacaat	actatctatc	agcacattgt	gagtgcagaca	120
ttcgccaaag	caggctcctc	ggttcgcac	tttaattactg	acaaaaagaa	ctacaaaccc	180
acttccgaga	gatgtgtcga	aactcttttc	accacagagt	ag		222

<210> 1500

<211> 990

<212> DNA

<213> B.fragilis

<400> 1500

agaaaaaaca	agaagatggg	attattcata	aagaaaccct	ttgaagccct	attggcagag	60
gccaatgcgt	cgggcagtaa	atcattaaaa	cgagtattag	gcccctggag	tctggtagca	120
ctgggcgtcg	gtgttatcat	cggagcagga	ctcttctcaa	tcaccggcac	cgtagcagcg	180
ggctacaccg	gaccggccat	caccctttca	ttcgccatag	ctgcactcgg	atgctgcttc	240
gcaggactct	gctacgctga	gttcgcttct	atgattccgg	tggcaggcag	tgcttatacg	300
tattcatacg	ccaccatggg	cgaactgata	gcctggatca	tgggtggga	tctcgcttct	360
gaatataccg	tagcagccac	taccgtcagt	atcagttgga	gccgatctct	cgctcgtctt	420
cttgaaggac	tgcataatac	tctgccgcaa	gccctgaccg	cctgcccattg	ggatggagga	480
atcgtaata	tcccggcggt	cctgatcgta	gtgttgatga	gcattcttct	gattcgcgga	540
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gccaataacg	gtacactggg	cgaatacggg	ctctcgggtg	tcctgcgtgg	agccgccatc	720
gttttctttg	ctttcctggg	attcgatgcc	gtcagtacgg	ctgcacagga	aacaaaaaat	780
tccgaaacgg	aatatgccga	tccgtattct	ggtatcactc	ttggtatgta	ccgtacttta	840
tatgcctgtt	gcccacgtaa	tgacaggagt	agcccattaa	taccgaattt	taacggccag	900
aagggcacgc	caccggtagc	cattgccatt	cgaacacatg	ggacatgccg	atgcaacagg	960
gcattcattca	cccggattat	cccgtggtga				990

<210> 1501

<211> 351

<212> DNA

<213> B.fragilis

<400> 1501

aagtggattg	aagaggcgcg	tgcgttgggt	gatacacccg	aagaaaagga	attgtacgaa	60
tggaatgccc	gtgtacagat	tacgacctgg	ggtaaccgga	acgcggccga	ttacgggtgt	120
ctccgagact	atgctcacia	agagtggaa	ggcttgctga	aagatttcta	ttacatgcgt	180
tggaaaactat	atttcgactt	tctttctcag	cggatagagg	gaaagacccc	tgcggaaatt	240
gatttctatg	ccatagagga	accttggacg	aaagctgcca	atccctattc	tgccgaggcg	300

gaaggagact gcattgaagt agcgaagcag gtgatgcaag cggttgaata a

351

<210> 1502

<211> 609

<212> DNA

<213> B.fragilis

<400> 1502

gccatgacgg	actacttccc	cccattcttt	tcacacatca	acgagaagtt	cgttacaccg	60
gcgcgcagta	acctcctgtt	tatgctgata	gtgggcctgc	tcgccgcatt	tgttcggca	120
cgcctggcgg	gagagatgac	cagcatcggt	acactgatgg	ctttcacact	ggtatgcga	180
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gtgcctctcg	tccccattct	gggaatactc	acttgtctgt	gcatgatgct	tttccttccg	300
gccgatacct	ggatacgatt	agtactgtgg	atgctgatcg	gactggacat	ctatgtcggc	360
tacggcatga	aacacagtaa	actggaacat	ggtgtgaaaa	atcgccgggg	acaatcggca	420
ttgaacatga	tcggcattgc	actgtctctg	ctttgtgtca	ttaccggctt	atggcatcag	480
cagactgtag	gttggaatga	aagtaaaata	ttgctgatca	tctcgtttgt	tttcgcattt	540
acgcattgtg	catattatat	gatgcggata	tggaaaggga	caacaaaaca	aacgaatgac	600
aacgggttaa						609

<210> 1503

<211> 1298

<212> DNA

<213> B.fragilis

<400> 1503

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cctgcctgga	gtatggactt	cagaataact	actccctgca	aatagtcgcg	aatgaagagc	120
aagtgagcag	gaacaacgcc	accccgggca	acgcaggcta	tctgccgaca	ctcgatttta	180
cggcaggata	caaggggaca	gtggacaaca	ctaataccaa	ggtccggggc	accggagaat	240
cagtaaaaga	aaacgggtgc	ttcgaccaa	ccttgaatgt	gggtctgaac	ttgaactgga	300
ccatcttcga	tggttttaac	attacagcca	attaccagaa	actgaaagag	ctgcaactac	360
agggagaaac	caatacccgt	atcgccatcg	aggacctgat	agccaatctg	gcagccgaat	420
attacaacta	tggttcagcaa	aaaatccgct	tgcagaattt	ccgttatgcg	gtatctttgt	480
cgaaagagcg	cctgcgaatc	gtagaagaac	gttaccacat	cggtaacttc	tcccgtctgg	540
actatcaaca	agcaaaaagt	gacttcaacg	ccgacagcgc	caaatacatg	aagcaacagg	600
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aaccgctcgt	gatagaagac	agcattataa	aagtgaatgc	cgggcttcga	ttcgaagagt	720
tgtggaatgc	taccttactg	acgaacgcgt	cactgttgaa	agctgaacaa	aacaacacgc	780
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aagggctgaa	agcagacctt	agcaatctgt	ggcaggccta	ccagaataat	ctgcaaatgc	1080
tgaactgga	acgacagaat	ctggtagccg	ccaaagagaa	tcacgagata	gctatggaac	1140
gctacatgct	aggcaacctt	tcgggtatcg	aaatgcggga	agcgcagaaa	agtttgctgg	1200
atgccgaaga	acgcatactt	tcggctgaat	acgataccaa	gttatgtgag	atttcacttt	1260
tacaaatcag	tggaaagatc	acgaaatacc	tggaaatag			1298

<210> 1504

<211> 1341

<212> DNA

<213> B.fragilis

<400> 1504

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ttcatttcgg	gtccgggatt	ttttgcctgg	tgggttatga	ataacttggg	aggggtgggt	120
ggtcccaatc	ccgacagctg	gtatacccg	cagattgctt	tgcaaaaaaa	gatacctga	180
cgtatgcgcg	aatacgggtat	agagccgggt	cttcggggct	attgcggcat	ggtacctcat	240

aatgcgaaag	agaaactcgg	cctgaacgta	tccgatccgg	gaacatgggtg	tggctaccgt	300
cgtccggcgt	tcttgcaacc	gagtgatccg	cgttttcgagg	agattttcttc	tctttactac	360
aaagaacttg	agaaactgta	cggcaaagct	aacttttact	ccatggaccc	ctttcacgaa	420
gggggaaaca	ctgcaggtgt	cgacctcgat	gcagccggta	aggcagtgat	gaaagctatg	480
aagaaggcca	atccgaaggc	tgtctgggtg	gctcaggcct	ggcaggcaaa	tccgcgtccc	540
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gacaatgtga	tcgataactt	ctatcttgcc	aaagccgatc	cgcatgcaag	cgctacgctg	780
aaaggggtgg	gaatgactcc	tgaagggatt	gaaaacaatc	cggtgatgta	cgagctgggtg	840
atggagctgc	cttggcgctc	cgaccggttc	acgaaggaaag	agtggctgaa	ggagtatgta	900
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tctatttata	actcgccgaa	gaacctgacc	cagcagggga	cacacgaatc	agtattttgt	1020
gcccgtccgg	cggaaagatgt	gtaccagggtg	tccagctggt	cggaaatgaa	agattactac	1080
cgtccgcagg	aggtgataga	agctgcccgc	ctgatggttt	ccgtagccga	tgcctttaaa	1140
ggtaacaata	attttgaata	cgatttggtg	gatattgtcc	gccaggcact	ggcagagaag	1200
ggacgtctga	tgcagaaagc	tgtgactgcc	gcttatcgtg	caggtgataa	acaactcttt	1260
gcactggcat	cgggaaagtt	cctcgacctg	attttgttgc	aggataaact	gttgggaacc	1320
cgtccggagt	ttcgagtatg	a				1341

<210> 1505

<211> 903

<212> DNA

<213> B.fragilis

<400> 1505

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<211> 219

<212> DNA

<213> B.fragilis

<400> 1506

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tgttttctgta	aatccgcct	tgggtgcacgt	ggcgggatta	tacaggaaaa	aaaaggaaca	180
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<211> 3000

<212> DNA

<213> B.fragilis

<400> 1507

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<210> 1508

<211> 207

<212> DNA

<213> B.fragilis

<400> 1508

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gtaaccagg	cactgcacga	ggaccgtatc	catgaaacac	gttccatgac	cgaaaacaat	180
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<210> 1509

<211> 864

<212> DNA

<213> B.fragilis

<400> 1509

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<210> 1510

<211> 624

<212> DNA

<213> B.fragilis

<400> 1510

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<210> 1511

<211> 291

<212> DNA

<213> B.fragilis

<400> 1511

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aattatctaa	ttaacaacaa	tatatattat	gaatataata	cgcagcccat	tatttattgt	240
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<210> 1512

<211> 1404

<212> DNA

<213> B.fragilis

<400> 1512

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<211> 1461

<212> DNA

<213> B.fragilis

<400> 1513

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 <212> DNA
 <213> B.fragilis

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 <211> 198
 <212> DNA
 <213> B.fragilis

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<210> 1516
 <211> 783
 <212> DNA
 <213> B.fragilis

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cgaacaggca	cgccgcaacc	cacaacccca	gaccgcgcgg	cgcgccgcgc	acggggagca	180
agggagagag	ggaggaagag	acggaggaan	acgcgaaaaa	nnaaggaaga	aaaaaanaaa	240
anaaccaaga	naaaannaaaa	aaannnnnaaa	naaaaaaaaa	agaaaaaaan	nnnaaaaaaa	300
anaaaaaaaa	aaaaaaaana	annnnnnnaaa	aaaaaaaana	aaaaaaaana	aaacaaaaaa	360
aaaaaaaaaa	aaaggnnana	aaaaaaaaaaaa	aaaannanaa	naaaannaan	nnaaaaaaa	420
aaaaaaannn	nnaaaaanna	gnnnnnnaann	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nanannnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	720
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<210> 1517

<211> 330

<212> DNA

<213> B.fragilis

<400> 1517

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tgcttcgata	aacggggaga	gcgtaaagag	acagatggta	caattttcag	gagaatcgtg	180
acgggagtg	ccctgttcgt	tatgggatac	gcacgaatgt	tccccgtgaa	catgaaaagc	240
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<213> B.fragilis

<220>

<221> unsure

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cggaacagg	cacgccgcaa	cccacaaccc	cagaccgcgc	ggcgcgccgc	gcacggggag	180
caaggagag	agggaggaag	agacggagga	anacgcgaaa	aannaaggaa	gaaaaaana	240
aaanaaccaa	ganaaannaa	aaaaannnna	aaaaaanaaa	aaagaaaaaa	annnnaaaaa	300
aaanaaaaaa	aaaaaanaaa	naannnnnnna	aaaaaaaaaan	aaaaaaaaaa	aaaaacaaaa	360
naaaaaaana	aaaaaaggnna	naaaaaaana	aaaaaannan	anaaaaaana	annnaaaaaa	420
aaaaaaaaaan	nnnnnaaaaa	nagnnnnnna	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
nnnanannna	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	540
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	600
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	660
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	720
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<211> 1539

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<213> B. fragilis

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<400> 1519

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aacatgcagc	tgtcccagtg	gcagggggat	gatataacga	ccaatccggg	gagcaacaaa	180
cagtctgccg	cagaaatgga	caagtttgcc	gcagcaaaaa	acaacaaggg	tgtcaaagat	240
gcgtggaaca	tgcattatgc	cattgtaaag	gctgccaat	tgatcatata	gggggcttct	300
aaaacaccta	ccactcaaga	tgagataaat	atcggcctcg	ggcaggctaa	attctggagg	360
gcatacgctt	attttaccct	ggtgcgactt	tggggaccgc	tgccgatgaa	tctggacaat	420
gtcaacgatg	attataccaa	acctctatcc	cccgtggaag	aagtgtatgg	tcatattgtg	480
caggacctga	ccgaagctga	ggccgtattg	cctacgggtt	acagtggcag	ccccgccttt	540

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aaggcgaagg aggtcattga ggggtgtgaac agaggtgaat acgagtataa gctcgataag      720
gattacaaag atgtgtatgc tatgagcaat aactataata atgagacggg gctcggcata      780
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gacggtccga gaaaagatgc gacttatgat cccaagattc gtctgaaaga cggaacgttg      960
gttgactggg gggagttgaa ggaggacggg acccctgtcg ttccggaaca tcaccccatg     1020
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gattatacaa aaccggccag tcagaacatg tgtaatgacc atcggcatag aatcattcgt     1140
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gagtctgtag aatatacgaa caggacatgg agtgacaatc tgatgtatct tccatatcct     1500
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<210> 1520

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1520

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aanaaccaag	anaaaannaaa	aaaannnnnaa	anaaaaaaaa	aagaaaaaaa	nnnnaaaaaaa	300
aaaaaaaaaa	aaaaaaaaaan	aanannnnnaa	aaaaaaaaana	aaaaaaaaaaa	aaaacaaaaan	360
aaaaaaaaaaa	aaaaggnnan	aaaaaaaaaaaa	aaaaaannana	anaaaannaa	nnnaaaaaaaa	420
aaaaaaaaann	nnnaaaaaann	agnnnnnnaan	nnnnnnnnnnn	nnnnnnnannn	nnnnnnnnnnn	480
nnanannnnan	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	540
nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	600
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nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	720
nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	nnnnnnnnnnn	caccaatgaa	780
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<210> 1521

<211> 1293

<212> DNA

<213> B.fragilis

<400> 1521

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acaagggaga	actacctgga	gaaactgagg	gtgagccaga	aattctggag	agaaaaagga	1020
ggctgcctgg	gagaggaaac	gatcggaag	ctgctgtcgg	ccggtgtacc	gttcacgggtg	1080
gaagaatgca	cgacataacc	gactgacaag	aggcccgtcc	gcatggagta	tatagacgag	1140
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aaaaacgata	atacctgcaa	gtatatgggt	ttcacgcaga	caaacggga	gagggagatg	1260
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<210> 1522

<211> 531

<212> DNA

<213> B.fragilis

<400> 1522

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<210> 1523

<211> 2358
 <212> DNA
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<400> 1523

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tcgacgggta	cacgcgatac	tctgctggtc	attgaccagg	aaagcgggct	tcccattgaa	180
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ccggacatac	aaaaactcgg	ggaagtggtc	gtgaccgggtg	aacgtgccgg	ggcgtcacc	420
aacgtgggtga	gccggcgcct	ttcatctccc	gagatcagga	acgcgctggg	aacctcgctt	480
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 <211> 417
 <212> DNA
 <213> B.fragilis

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 <211> 534
 <212> DNA
 <213> B.fragilis

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<210> 1526
 <211> 279
 <212> DNA
 <213> B.fragilis

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<210> 1527
 <211> 1506
 <212> DNA
 <213> B.fragilis

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<210> 1528
<211> 186
<212> DNA
<213> B.fragilis

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<210> 1529
<211> 1557
<212> DNA
<213> B.fragilis

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<210> 1530
<211> 1491
<212> DNA
<213> B.fragilis

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<210> 1531

<211> 411

<212> DNA

<213> B.fragilis

<400> 1531

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<210> 1532

<211> 225

<212> DNA

<213> B.fragilis

<400> 1532

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cgtgctttgc	ttcagggagt	ggaattccag	aaagtcagtg	cgataggggg	agcaattaat	180
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<210> 1533

<211> 1152

<212> DNA

<213> B.fragilis

<400> 1533

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<210> 1534

<211> 189

<212> DNA

<213> B.fragilis

<400> 1534

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<210> 1535

<211> 711

<212> DNA

<213> B.fragilis

<400> 1535

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<210> 1536

<211> 1353

<212> DNA

<213> B.fragilis

<400> 1536

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<210> 1537

<211> 255

<212> DNA

<213> B.fragilis

<400> 1537

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gcggagcgta	tttttgatgt	aaaactttgt	atagaatctg	atttatcgtg	tatcagggcc	180
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<210> 1538

<211> 1290

<212> DNA

<213> B.fragilis

<400> 1538

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<210> 1539

<211> 1578

<212> DNA

<213> B.fragilis

<400> 1539

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<210> 1540

<211> 429

<212> DNA

<213> B.fragilis

<400> 1540

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gaagtgcctg	aatttagtac	gttttatggg	gccaaagtca	gccaaagtcta	ttatatgtgc	300
gaatttcctc	aagatgaatc	aatagaatct	tttgatgctg	gattttgtagc	ccaagtttac	360
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<210> 1541

<211> 1341

<212> DNA

<213> B.fragilis

<400> 1541

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attcagaat	atggtatatc	tgtcttttca	tcgaactata	cgctatacgg	cgacatgtcc	300
ggacgcgtga	tgtccatact	ggcagaacaa	gtgccggaaa	tggaaagtata	cagtatatagac	360
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<210> 1542

<211> 864

<212> DNA

<213> B.fragilis

<400> 1542

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<210> 1543

<211> 1080

<212> DNA

<213> B.fragilis

<400> 1543

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gagaagtctg	cccatttcga	aggtctgttt	tggggggata	tagattttga	ggaacaggag	480
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<210> 1544
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 <212> DNA
 <213> B.fragilis

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 <212> DNA
 <213> B.fragilis

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<210> 1546
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 <212> DNA
 <213> B.fragilis

<400> 1546						
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<210> 1547

<211> 240

<212> DNA

<213> B.fragilis

<400> 1547

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aatgaagaac	atgataaaga	gtttcacaag	tataatgagc	cacagggtac	gtccccaggg	180
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<210> 1548

<211> 2073

<212> DNA

<213> B.fragilis

<400> 1548

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gatgcttatt	ttccgatgat	ctataatggg	ttttatttacg	aaggaccgga	atggatcggg	1860

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

cgttcgggttc	aagagagtgt	taagaccggt	gacggacgtg	cgaaagtgtg	tgccggactg	1920
atgtttcccg	atataaagaa	cgattttgag	aaagcattgg	atgaagcatt	tgataacggt	1980
gcatccggtg	tttcattctt	tgacggacca	tcagacgaat	atctgcatcg	gtttaaagcc	2040
tatctggaca	agaaaggatt	aaagacggaa	taa			2073

<210> 1549

<211> 894

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (778)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1549

gatcatgctg	accgaccggg	gttcgactat	tcagaatggg	agaaaatagg	acttgcccac	60
tctttcagta	ctccatattt	catgtcgaag	gacttttatg	taggctacgg	atggtagcgt	120
aaagcttttc	cggtaaaaaa	agagattctt	ggcaagaaaa	gttttcttga	attcgatggc	180
gtattttcaag	aagcagagat	tttcgtcaac	ggacacttgg	caggcactca	caaaggagga	240
tataccggat	tttccatcga	catatcagct	tacctgaaa	aagggaaaaa	cctggtagcc	300
gtccgagtaa	acaactgttg	gcgcctgat	cttgccccgc	gtgcaggcga	acatgtattt	360
agcggaggta	tctaccggaa	cgtacgtctg	gtaataaagc	ccccacttta	catcgattgg	420
tatggcacct	gggtcacaac	cccggacctg	gcagagaaca	aaggtaaata	gggaagcgct	480
cacatacgga	cagacgtatg	taatgcttca	ggaaaaacag	acacttaccg	actcctgacc	540
accgttgtcg	atgcacaagg	caaagaagtg	tcttcggttt	ccacatccca	agtattgccg	600
gacaatgcaa	cctacacatt	taaacaacaa	accaaagaaa	ttcaggcacc	tcaactgtgg	660
catcccaatc	atccggcact	atataaagtg	ataagctcac	tctatcacgg	acaagaattg	720
atagaccgtt	acgaaacaac	attcggattt	cgctgggtcg	aatggactgc	agaccggnga	780
tttttcctga	atggggagca	cctttatttt	aaaggagcca	atgttcacct	agatcatgcc	840
ggatggggag	acgctgtaac	ccaaaaccgg	aatgccaaaa	aaaatctccg	gtag	894

<210> 1550

<211> 1026

<212> DNA

<213> B.fragilis

<400> 1550

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tattttatca	aagcgggtag	aagcctcggg	gcggacacct	gctttgtcac	ttatgacgag	120
ttgtcggcgg	ttcttcccga	ttgtcgcgat	acggttgtaa	agctggagcc	tccggtgttt	180
cgggaggcgg	actttcggaa	atacaatttg	ctctgcgagg	agtatagaag	tctgttgtcc	240
cgactggcgg	atatggataa	gtcggaaagt	gtacactttc	tgaatgaacc	ggctgcaatt	300
ctttgtgcac	tcgataaagt	gtatactcag	cggaaactga	ccggggcccg	cctgaaaaca	360
actccgttgc	tttcggatgc	gcttagcaca	tttgatgatt	tggccgccat	actttgccgg	420
cagaagaggg	gaggatttct	gaaaccccg	tatggttccg	gggccggtgg	gattatggct	480
gtcaggtata	atcatcgccg	ggatgaatgg	gtggcttata	cgacgatgtc	ctgggaagga	540
gggcgcgttt	gtaatgcgaa	acgtatctgc	aggctgacga	accggaagaa	gattgccaca	600
ttggcggaag	aagtcatacg	gtgtggggct	gtccttgaag	aatggatggc	aaaggaaaaa	660
ctggaagggt	agaattatga	cttgcgtggt	gtctgcaggg	gggatgaagt	cgattatgta	720
gtggtgcgtt	gcagtgcgca	tgccataact	aatcttcacc	tgaacaataa	agcgaggctg	780
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gccatgaagg	ccttggggct	gcgatatgcg	ggcatagacg	tgctgatagc	ccggaatacg	900
gacacacctt	atattataga	ggtcaatggg	caggagagacc	atatctatca	ggatatgtat	960
acggaaaata	agatatatgc	caatcagata	aaaacgatag	aatcactttt	caatggaaat	1020
agatga						1026

<210> 1551

<211> 1236

<212> DNA
<213> B.fragilis

<400> 1551

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gcaggcggag	gggtttggct	ctttggcggt	tctacggcca	agcaciaaagt	gacctatgcc	120
acggcaaccg	taagcaaagg	cgagatatcg	gagtcggtaa	ccgccacagg	aactatcgaa	180
ccggtaacag	aagtagaagt	cggtacacag	gtatccggaa	ttatcgacaa	aatctatgtg	240
gactataacg	cggcagtgc	caagggacaa	cttatcgctg	agatggaccg	tgtgacactg	300
caaaagtgaac	tgcctctca	acgtgccacc	tacagtgggtg	caaaggcgga	atacgaatac	360
caaaagaaga	actatgagcg	caacaaaggg	ttgcacgaaa	aggggctgat	cagcgatacc	420
gattacgagc	aatcgctcta	caactacgag	aaggccaaaa	gctcgttcga	aagcagccag	480
gcttcaactg	ccaaggcaga	acgcaacctg	tcttatgcc	ccattacttc	tccgatcgat	540
ggcgttgtca	tcagccggga	tgtggaagaa	ggacaaacgg	tggcttccgg	attcgagaca	600
ccgactttgt	tcaccatcgc	agccgacctg	acccagatgc	aggtagtggc	cgacgtagat	660
gaagccgata	tagggcggt	ggaagaagga	caacgggcca	catttaccgt	agatgcctat	720
ccgaacgatg	ttttcgaagg	aatagtgcac	caaatccgtc	tgggagacgc	aagcagtacc	780
agcaccagca	gctcgtctac	taccgtagtc	acatacgaag	tagtgatctc	cgcccataac	840
ccggacctga	aactgaaacc	ccgcctgacg	gctaattgtca	cgatctacac	actggacaga	900
aaggacgtgc	tctctgtacc	ggcacgtgca	ctccgcttca	caccggagaa	accctgatc	960
ggcgataatg	acatagtga	ggactgtgag	ggcgaacata	aaatatggac	acgtgaagga	1020
aatactttca	cggcacaccc	cgtgcagata	gggatcacta	acggcatcaa	tacagaaatc	1080
acccaagggtg	cttccgaagg	catggtagtt	gtcaccgaag	ccaccattgg	aaatatgccg	1140
ggcggaatg	tatcgctga	aggcgagacg	gaaggcgag	gagaacaaag	tccgtttatg	1200
cctagccatc	cgggcagcaa	gaagaaagga	aaataa			1236

<210> 1552

<211> 621

<212> DNA

<213> B.fragilis

<400> 1552

aaccccgccc	gtcgtgaagc	ggagaaaagt	cgcaccgaag	cagagttgaa	gaacttgcca	60
aaccaactta	acccgcattt	tctgctcaac	acgctgaata	atatttatgc	actcatcgcc	120
tttgacagcg	acaaggcgca	gcaggccgtg	caggagctca	gcaagttgct	acgctatgtg	180
ctctatgaca	atcagcagaa	ctatgtaccc	ctttgtaaag	aggtagactt	cattcgcaac	240
tacatcgaac	tgatgcgtat	cogtctttcg	ggaaatgtag	aggtcattac	acaattcgac	300
atacagccgg	acagccggac	ggagattgct	ccactgatct	tcatctcact	gatagagaat	360
gcctttaaac	acggcatctc	ccccaccgaa	ctgagtttca	tccacatcct	catctctgaa	420
aacaaagagg	agatccgggtg	tgagatacgc	aatagttatc	atcccaaaac	caacacggat	480
aaaagcggat	cgggtatcgg	gctcgaacag	gtaagggaagc	gcctcgaact	ctcttatccc	540
ggacgttatc	aatgggataa	agccatctcc	ccggatggca	aagaatatat	atcgaaatta	600
ttaatatatta	atcatccata	g				621

<210> 1553

<211> 780

<212> DNA

<213> B.fragilis

<400> 1553

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gctatgaaac	cctacatttt	tccttcgtcc	atagagacgg	cacgtgcact	gatattacat	120
ttggtgaaac	tgatgttaga	tgaaccggac	aggacctttt	gtatcgcggt	tagtggtgga	180
agcactccgg	cactgatgtt	tgacttatgg	gcgaatgaat	atacggatat	cactccttgg	240
gaacgactga	aagtgttttg	ggtagatgaa	cgttgtgtgc	ctcccgaaaa	ttcggacagt	300
aattatggca	tgatgcggtc	gttgttgctg	agtattgtac	ctattccgta	cgagaatgtg	360
tttcgaatac	agggggagaa	gaatccgaag	aaggaggctg	cccgtatttc	gaagctggtg	420
atgaaagaag	tgccggtgga	gaatgagttc	ccgctatttg	acgtagtgtc	gctgggagca	480
ggtaatgacg	gacatacgtc	gtctatcttt	cccggacagg	aagaattgct	ttcaactgat	540

catatatatg	aggcgaattt	taatccgaat	aacgggtcaaa	agagaatagc	tttgacagga	600
cttccgattt	tgaatgcccg	aaggatcatc	ttcctgataa	caggaagggt	gaaaagtccg	660
gttgtagaag	atatcttcta	ttcggggagat	accggaccgg	ccgcctatat	agcgcatcat	720
gccgataacg	tggaactatt	tatggataat	gcagctgctg	aaaaagtcac	tcgcgataa	780

<210> 1554

<211> 1281

<212> DNA

<213> B.fragilis

<400> 1554

tatcaagcgc	ttgtattaag	atattgtagta	ttaattaata	atattgtttta	tatgagaata	60
aaaagggttat	tgtatgctat	tgtacaata	cttccctttc	tgtttctctg	ttcatgttat	120
gaagaacagg	aacctcaaca	ggagaaacag	gataaggaaa	aatggacaat	gcaggttgcc	180
ggtaatcagt	taaatgaatt	tttaaataat	aatccggatt	tacggaacct	ttacgcttat	240
ccggactggg	atgctgcgca	gattataagg	gagcggagcg	atacagtttc	atattacgtc	300
cctgtagtgg	atataacagc	tgatacatgc	tcttatttaa	taatagcacg	cgcttcgaat	360
gatgtttatt	tgtacatggg	aagacttcct	gaggaataact	ccggctttga	ttcctttttg	420
gaagaacatt	taaaaatatt	acggattatt	gatggtgccc	ggagagtccc	tgttggatat	480
ttgcataatt	ttccggatga	tgtactgact	cgtacccggt	cttcaggctc	tctgtttaat	540
catgaccgcg	aaacgaatac	ggaaattcct	gaaaataaca	cctttgttaa	agacgatctt	600
tttgggtgccg	gttttttcgtt	acccgaagtg	acagtaatcg	gtagacgtcc	tacatcttct	660
gaagaccggt	ttaaatggcc	ttttggggat	atgccttctg	agtctccgaa	agcccttccc	720
ggacttgatg	actttttttc	tcttcaagga	ggcggttcat	cttcgttatc	ttcgccacag	780
caatcaggct	ctttgcctaa	acctgaagaa	gtcatttaag	atgcaactgt	aaaaaaggct	840
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ggtatagcag	tgaagaatga	cggaaaagca	agagggaata	taagccttgg	agacaaatcc	1020
ccttctgtaa	atgggtgtgcc	tgccacagca	aagggtggtg	cttcttttca	tacacacact	1080
ccaatgactg	aaataaaaagg	catgaaaaga	aaagtaggtc	catctaaaga	agataaaggg	1140
aatgctgata	aaaataggat	tccaatcatt	gtttatgatt	acattggtac	aaaagatcct	1200
cgaacaaatg	attattatgt	tattggtgga	cataaagtaa	gtgaccccaa	aaaaatgtat	1260
atttaccac	ctaagaaata	a				1281

<210> 1555

<211> 1260

<212> DNA

<213> B.fragilis

<400> 1555

aaacaattga	gtatgaaaat	gatttttaaat	ttttctgaat	gtattattag	ttttttctcg	60
ttatgtttat	tgtgtgttgt	cttctcttgc	gatgaaatgg	atattgacca	aggtcctcca	120
acttccgtta	cgcgtaatct	gatgacatca	gatgggtccg	gttttaagat	cgatacagtt	180
acgtacgata	aaattccggc	tgaatatgcc	cggaaaatat	tgtctcttga	agaacctact	240
tcagttgtaa	ctgataagag	caagcgtctc	ttcagagtga	atgaactttt	tcaaattaga	300
aaagcaaattg	atcaattgct	ttcaattacc	agctattccg	ccaagacggt	ttatgatctc	360
atacttgaag	tctatgtaga	aggtggttcc	cagtatgttc	ctattgctta	tctggactcc	420
ataccgggat	tctcacaatt	tgagttaaag	ccatcgttga	tcaatggaaa	tttcatatat	480
aaaaaggata	acggtgtgga	tactctgtcc	ctttcgagcc	tgaacgaaaa	gagaatgaaa	540
tttcgtttac	ttagcgatga	taagcatttt	gaaatgcttt	ctaaaataga	tgcggtgtgg	600
aatattttctt	tttcaaatta	tgattggaaa	ccgggggatg	aaagtgggtc	atggcgcgag	660
ttgagtgcc	tctatgcacg	tgagtgggtg	gtcattatta	caaattatgc	ctatatgatg	720
actactccc	agtatgcttt	tatcatgaga	aatttttagta	aaatatttgg	tggaagaactt	780
tatgataata	accgtgttaa	gttcacaccg	gaaaagtatt	tatcagaaga	aaaagggttc	840
aaacaaccgc	ataactttgt	ttgtggacga	tctaaccct	ctggtggcgg	tttggcgga	900
ggaaacgtgt	ggggagtaac	tcactggaat	tattatggtc	attatgcttc	ttttagcgggt	960
tggaatcaa	ttacacatga	atattatgcac	tgtatgggat	atggtcattc	tagtaacatg	1020
acttatgctt	ccggtggagt	gggatggacc	gagttcatgt	ggcaactaca	tacttatttg	1080
agaggggaatg	attggctgcc	atatacggat	cggaatctgt	taggttttca	taagccggaa	1140

aacgcgaaat	atcgtgatgg	tggaattgac	cctgataaac	tgaatgataa	taagattctg	1200
cagttttata	ataaaagtaa	agttacccaa	tatttttttag	ctaataccgtt	gtctaaataa	1260

<210> 1556
 <211> 477
 <212> DNA
 <213> B.fragilis

<400> 1556						
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gaaatcctga	tacacatcat	cagttggggg	attgtgttcg	gtttcccggt	cttcttcctc	120
gatcgtacag	gagacagtat	caattggcat	gcctatctgc	gtcattctgc	cgtacccctc	180
tcttttgtca	ccgtattcta	tttaaaactat	ttcctcctcg	ttcctcatct	cctcttccag	240
gaacagaaga	ataaatacat	catctacaac	atcttattgg	tctgcctcat	cggactgctg	300
ctgcatatct	ggcaaagcct	gaatgccccg	gctccactc	ttaaaaaacc	gcatatgcct	360
cccggatggg	atTTTTttcg	taagagacat	tctaagcctc	atcttcacca	tccgactgag	420
tgccggcatc	cgcattgagt	ccccgttggg	gacaagctga	aaccccgccc	gtcgtga	477

<210> 1557
 <211> 1548
 <212> DNA
 <213> B.fragilis

<400> 1557						
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agtatctatt	atagaggtag	tctggagcat	tgcaattata	cgtgttcgta	ttgtccgttc	120
ggcagaaaagt	ctgtgtctgc	cgatacgaca	gaagatcagg	aagcattgga	tcgctttatt	180
tcccgatatcg	gcgggtggaa	atacggttca	ttacgcatcc	tgattattcc	ttacggggaa	240
gcgatgatac	atcgctacta	tagagagggc	atcatgcgcc	tggccgctat	gccccatgtg	300
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gaggcggagc	aggcagatgt	gtctaagttc	aggttttggg	cgagctatca	cccggagatg	420
gttgggtag	gggagtttgc	atccaaagta	gagatgcttc	gtgcggcccg	catcggggta	480
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gaagaggata	tccgtttctt	tggtgaaata	gacaatctgt	tcgattatga	ccggagaaat	660
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acttcggatt	ttcagccctt	ctgccttcgt	aaagtttgtg	attggtacat	tgctctcagt	840
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gaaaggaaga	agggtggaag	tgtcttcttt	gatgtggatg	gtacgctgac	ggatgctcag	960
ggacggattc	cggaccgtac	ggtttcggta	ttggagtata	tggctaagcg	tttgccctta	1020
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ctgttctcgg	gcggagtgtt	tgcggacgga	ggtctgttat	gctacgggga	aactatcgaa	1140
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cgggtggctga	ccgaattgga	tgaagaggcg	tatcaattgt	atcaggaggg	acgattgctg	1320
acgggtgtag	acagtaaagc	cggtaagaag	aacggtctga	ttactctgtg	tgctcgattg	1380
gggatttctc	ttaggagggt	tttggttagta	ggcaatacga	tgcattgattg	gccgatgatg	1440
tccgtagccg	gctattcttg	tgccgtgatg	gatgcggaag	aaaagttgag	gaaactatcg	1500
ggatatgttc	tgaaccccca	tagtattcct	gtattttttg	atatctga		1548

<210> 1558
 <211> 1188
 <212> DNA
 <213> B.fragilis

<400> 1558						
aacctcgtaa	tgaagaaaat	acacatagga	cttttgcac	gtatcatcat	agctattata	60
cttggtagtc	ctatcgga	tttcctgccg	acacctttgg	tacggctgtt	cgtgaccttc	120

<212> DNA

<213> B.fragilis

<400> 1561

aacatacggg	tggctatgat	taaaaaaagt	gataagaaaa	atgtgaaaaa	atgtataaga	60
acgaatttta	atttttatct	ttgtccaaat	ttgtatgcga	tgcttgtccc	aaccatgacc	120
accgaagagg	tgtgtaaaga	aataaagaat	gactatccgg	ctttttatga	aaaaatgttg	180
gataataagg	ctagtaacta	ccgaaagttt	attaaagctg	tcctatttcc	ggttatacat	240
cagttttcat	ggaaatcgtc	atcgggtaat	atgtggaatg	tgataatggt	ggctcgttat	300
cgtaatgaga	gaaaatgtcc	cggtattgtc	ccttacctta	aatatgaaaa	ttgggggatg	360
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ggctctaata	aaggacatga	gggttttgtc	gggtatacta	agaccggaat	tttctttggg	600
gtcgtataaa	aagagttgga	ttatctctgt	gtcaaaactt	atgtgtctgc	taatatgctt	660
tttgataatc	agatagaaaag	cttggatagc	gctgatgagt	taagagagaa	gatattgtcg	720
catccggact	attttcagaa	aagagggaaa	ctctttcata	tcatgaatga	ctcttctttt	780
tggatggatg	agacgatacg	ttaa				804

<210> 1562

<211> 864

<212> DNA

<213> B.fragilis

<400> 1562

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cgttatgacg	tcagcgtggc	cgaagaagcc	tccgggggga	ctcctgtact	gaatagctgt	180
ggcaacgggt	gggagaaacg	gcatgctccc	ggtaatttca	cttatccgtc	tcacttcgct	240
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ctcttttttc	cctttcaggc	cggtacggga	cgtatacctc	ccgaaggcag	ctatgctttc	360
aaagaggcta	cgttcgtaca	gagtctggct	caggtaggtt	atgaaacaat	ctgcatcgga	420
ggagtcaact	ttttcagtaa	gcggaatgat	ataggaaggg	tatttcccgg	ctatttcaat	480
aagagttatt	ggctgccgac	tttcggttgc	acggataaga	acagtgtctg	caatcagggtg	540
gactttgccg	tcgacaaact	ggaaaagtat	ccggcggacc	ggaaagtatt	tatgtatatc	600
aatttttcgg	cgattcatta	tccgaactgc	cactacgtgg	aaggaaaaaa	gaaagacgat	660
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gctttcagga	ggcgctcgga	cacgttggtc	attgccctgt	ccgatcacgg	gacctgttac	780
ggtgaagatg	gttacgagta	tcattgcata	tctcacgaaa	aagtatatata	ggtgccttat	840
aaacacttta	ttctcagaaa	atga				864

<210> 1563

<211> 1299

<212> DNA

<213> B.fragilis

<400> 1563

acactttatt	ctcagaaaaat	gaacgaacaa	cagcagattt	cacgatatgt	cagctatatg	60
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<210> 1564

<211> 1608

<212> DNA

<213> B.fragilis

<400> 1564

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<210> 1565

<211> 1425

<212> DNA

<213> B.fragilis

<400> 1565

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<210> 1566

<211> 555

<212> DNA

<213> B.fragilis

<400> 1566

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tcgtggggat	gtagttcccg	ggtgtcggat	aagccggtaa	cgctggaaac	gttgttggac	180
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<210> 1567

<211> 186

<212> DNA

<213> B.fragilis

<400> 1567

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ggaacgtctt	ttgaaacaca	agagtcgttc	tatctgtcta	atttacacaa	acttaccgca	180
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<210> 1568

<211> 1512

<212> DNA

<213> B.fragilis

<400> 1568

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<210> 1569

<211> 213

<212> DNA

<213> B.fragilis

<400> 1569

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gttgtgctca	tctatatctt	taattatata	tccttattct	atagggtata	cctaaactct	180
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<210> 1570

<211> 330

<212> DNA

<213> B.fragilis

<400> 1570

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<210> 1571

<211> 618

<212> DNA

<213> B.fragilis

<400> 1571

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gattttgaga	atgaattggt	gaatgactcc	aagcagttgt	cggagaagca	gcgatatgct	180
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<210> 1575
 <211> 579
 <212> DNA
 <213> B.fragilis

<400> 1575
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<210> 1576
 <211> 270
 <212> DNA
 <213> B.fragilis

<400> 1576
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<210> 1577
 <211> 189
 <212> DNA
 <213> B.fragilis

<400> 1577
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<210> 1578
 <211> 288
 <212> DNA
 <213> B.fragilis

<400> 1578
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 aatgttactg ccatccggat ctactacta acgttctact atctttattg taaaatccaa 180
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<210> 1579
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 <212> DNA
 <213> B.fragilis

<400> 1579
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<210> 1580

<211> 2400

<212> DNA

<213> B.fragilis

<400> 1580

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<210> 1581

<211> 204

<212> DNA

<213> B.fragilis

<400> 1581

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<210> 1582

<211> 2865

<212> DNA

<213> B.fragilis

<400> 1582

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<210> 1583

<211> 1032

<212> DNA

<213> B.fragilis

<400> 1583

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<210> 1584

<211> 231

<212> DNA

<213> B.fragilis

<400> 1584

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cggtcagccc	ggattaagac	agaaaagaga	tcagcacccc	tgccgctacg	gcagacccga	180
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<210> 1585

<211> 432

<212> DNA

<213> B.fragilis

<400> 1585

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agtgaggaga	tcattgtcaa	tattctcaat	tacgcttata	cgcagcaggc	agaaggttat	180
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<210> 1586

<211> 1551

<212> DNA

<213> B.fragilis

<400> 1586

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<210> 1587

<211> 453

<212> DNA

<213> B.fragilis

<400> 1587

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caaaagccat	acgaacctgt	tctatgtgac	aggcagaaac	cgaccggcga	tttaagctgg	420
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<210> 1588

<211> 1065

<212> DNA

<213> B.fragilis

<400> 1588
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<210> 1589
 <211> 1110
 <212> DNA
 <213> B. fragilis

<400> 1589
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<210> 1590
 <211> 1752
 <212> DNA
 <213> B. fragilis

<400> 1590
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 gagtgtattc tgggagccaa tgatatgtat gatatcatta agtttctgtt gggcattaca 360

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<210> 1591

<211> 318

<212> DNA

<213> B.fragilis

<400> 1591

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tttaagctgg	cgaaagctaa	aagttagagat	gtttgccttg	tcggtgtgtc	acaagaggtt	240
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<210> 1592

<211> 1944

<212> DNA

<213> B.fragilis

<400> 1592

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<210> 1593

<211> 1152

<212> DNA

<213> B.fragilis

<400> 1593

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tgtgctctta	atattccttt	caatcttaaa	gcattaatct	ttatgagttc	gcctaaaata	180
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attaccaga	catttactga	ttgggaactc	cttttggtgg	atgacggaag	tcccgatcat	300
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gattatgaaa	aatccaacta	ctatggccta	acattagttc	ttcgtggcta	caatttcaaa	1080
actgcaagaa	gaagaatggt	tgtagccaaa	ttcctagtac	aaataaaaaa	taaaattaca	1140
agaatgctat	aa					1152

<210> 1594

<211> 1650

<212> DNA

<213> B.fragilis

<400> 1594

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aaggatttta	atctctacac	gcttgttccg	ggctcggcca	ctgtagtcct	cgagacggat	180
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acgccgcacg	ggttgagcaa	gcagatgaat	aaagtgttgt	tgagtttcca	tgaacccgac	360
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gactttctgg	ttgtgagtta	tcagaaaaaa	ctgattgagc	aagtgatcga	tgcccgtttg	600
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attctttctg	cacaatttac	ttgtacggac	ggaattgtat	atcccaatgt	ggtattgatt	1620
tacaaaggtg	agtctgatga	catttcctga				1650

<210> 1595

<211> 204

<212> DNA

<213> B.fragilis

<400> 1595

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gcctggccgg	aggaacacac	acaaacaaaa	caaataaaag	cagtcacgat	tcgcatcggg	180
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<210> 1596

<211> 1473

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (145)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1596

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gaggatatgg	aggatgtgtt	gttcngaaac	cctgaacaat	ttcgtcgggt	ggctccttac	180
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ggcaattatc	gggaacgcga	tatgttgctg	atggcgatga	tcaccaatat	cagcgcctgt	300
ctgcccagag	tgcgtgtatt	gtacgatcag	gtgtattact	cgccgcatct	gtattacatg	360
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gagattcacc	gctattatga	gaagcagaac	gaggagatgc	gcctggtgta	tgataaggcc	480
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gaggtggtga	acgagcggga	tgattcgccg	ggagcgatcg	tgcttcgtca	cgggctgatg	1140
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tatgatgcga	tggatcgtgc	tgtagagatg	gggatctcgg	tacctacttt	taactgctta	1440
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<210> 1597

<211> 1380

<212> DNA

<213> B.fragilis

<400> 1597

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ggacatcccc	acacagcatt	tcaaagcatt	cacattgcag	ggaccaacgg	aaaaggttcc	180
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cagtctgccg	taaaggccgc	acaagaaaaa	agcctcccg	aagacctgat	cttcgtagga	1320
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<210> 1598

<211> 267

<212> DNA

<213> B.fragilis

<400> 1598

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caccactctt	ttttaatcca	cagttctctt	ttaattcaaa	ttttattgag	atggttcaaa	120
ggttataatt	gtcctacgaa	aattttctggt	aagccgctgc	taatttttta	tcatattgat	180
tctgctcata	agcaggacca	ttataacgtt	tggcaaactc	tgcccagtct	ttggcttgca	240
aagcggaaaag	cattccggat	tgtttga				267

<210> 1599

<211> 1065

<212> DNA

<213> B.fragilis

<400> 1599

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catgccgatt	ttcaggctct	tggtatgcct	gacaggacag	aaatgacaat	tcttccttta	180
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<210> 1600

<211> 1266

<212> DNA

<213> B.fragilis

<400> 1600

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ccggaatata	tacggcattt	cctgataaaa	agtatcgaaa	aagagagaaa	caaaaaacag	1260
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<210> 1601

<211> 753

<212> DNA

<213> B.fragilis

<400> 1601

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aacgcccatt	catataatac	agcgctgaaa	gatgccgggt	ttgcagaagc	cttgctcaaa	180
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gacttattat	ggataggtat	gacggctccc	aaacaagaga	aatgggcgta	tacgcatctg	540
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ttgatcaaag	agcctaggcg	catgtggcgc	cggatatatca	tcgggaatgc	cctgttcctg	720
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<210> 1602

<211> 813

<212> DNA

<213> B.fragilis

<400> 1602

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caagaaatga	aagaggcagt	tattgatatt	caacagaaaa	acaagttgga	tgctgatgga	180
atcgtgggat	atcgacttg	ggaagttctg	ttctttacag	ggcatcccat	taccgaacgt	240
ttgactgaag	aagattttat	tcttgtggcc	cggttgctcg	atgtggaagt	ggctgcttta	300
aaagcggtag	agcaagtaga	aacaggagg	agaggaggat	tttttgctcc	cggtaagccc	360
gctatccttt	tcgaaggtca	tattttctgg	aatcaattga	aaaagcggaa	tatcaatcct	420
gaatcgcatg	tgaaggggaa	tgaaaacatt	ctctatccca	aatgggagaa	gggacattat	480
aaaggcggta	tgggtgaata	cgatcgtttg	gaacaagccc	gtaagatcaa	tcataagca	540
gcggatgctt	ctgccagctg	ggggatgttc	cagattatgg	gtttcaacta	tgacgcctgt	600
ggagagaaga	gtgtcgacag	ctttgtaaaa	gctatgtgta	tgagtgaatg	tcgacaattg	660
gtgctgtccg	cccgttttat	caaacaatcc	ggaatgcttt	ccgctttgca	agccaaagac	720
tgggcagagt	ttgccaaacg	ttataatgg	cctgcttatg	agcagaatca	atatgataaa	780
aaattagcag	cggcttacca	gaaattttcg	tag			813

<210> 1603

<211> 195

<212> DNA

<213> B.fragilis

<400> 1603

aggcgtatcc	tggtattgg	agaggaacag	aatcctcttt	cccctcgggg	gaggggaatt	60
gcagttacgg	atgctccgtt	ctatgggaat	ggtacgagtg	aacgtttatt	taatatcgg	120
ctgtgtctgc	cttcgggacc	tacattgaca	gatgaggata	tcaggagagt	ggtggatacg	180
atcaggaaaga	tgtag					195

<210> 1604

<211> 756

<212> DNA

<213> B.fragilis

<400> 1604

aatgcagaca	attacatgat	tgataaaaagc	gaaatgattt	tcggcggttcg	tgccgtgatt	60
gaagccattc	aggctggtaa	agagatagac	aagatttttg	tgaaaaaaga	cattcagagt	120
gacttgtcaa	aagagctgtt	tactgtctg	aaaggtagc	tgattcctgt	tcagcgtgtc	180
ccggtggaac	gtatcaaccg	tatcacccgt	aagaatcatc	aggggggtggt	tgccgttcac	240
tcttcggtaa	cgtatcagaa	gacggaagat	ttgggtgcctt	tccttttcga	agaaggtaa	300
aatcctttct	ttgtcatgct	tgatggaatt	acggatgtgc	gtaatttttg	tgctatagcc	360
cgtacttgcg	aatgtgccgg	agtagatgcc	gtcattattc	ctgcaaaagg	aagcgttacg	420
gtcaatgcgg	atgcgatgaa	gacttcggcc	ggtgcattgc	acactttgcc	ggtttgccgt	480
gaacagaaac	tgaaaaacaac	cttgcaatat	ctcaaagata	gcggcttcgc	tattgtggct	540
gctaccgaaa	aaggagatta	tgattatacg	aaggcagatt	ataccggccc	gatgtgtatc	600
attatggggg	ctgaggatac	cgggtgtttc	tatgataatc	ttgcactatg	cgacgaatgg	660
gtcaagattc	cgatgctggg	tagcattgaa	tcactcaatg	tatctgtagc	cgcaggtatc	720

ctgatttatg aaggcgtgaa acaacgtaca aattaa

756

<210> 1605
 <211> 831
 <212> DNA
 <213> B. fragilis

<400> 1605
 aacttaaaaa atcatattat ggctcagtta agttcagtaa tcggctctat attgcgtgat 60
 atcgttttcgg cacaacacga agcaaactctt tattcgttgt cgcttggcga ctcttacgga 120
 aaagacggaa aggcgaaaga ttttcaattg cctaattgta tggtaagcga tatggaactg 180
 gatttgaaat atgggtgtgaa aagtgcacgc gaaagtcagc aacagtttaa tatcaagtat 240
 gataagttcc gtcagtttct taaagaactg tgcaacaag ttgccagggt agccattagc 300
 agtgctgtca ccacagtgat gacttcggat atagagagaa atgaaggaga gaaacacttc 360
 tttgaacggc ttaaaaaaga aaacaaactt catcaggaat tctgcacttt tctgagccgt 420
 aatatgagaa actcttttccg aaataatctc tatgatgccg tagacagtag taatggttct 480
 gtgaataacg atgtttgtgat tagcagactg acagatgtcg tacgtaaaaa atttctttac 540
 gatacagatc ttgatgatct ttttgccgga gaagatggag aaaaacttcg tgataccgct 600
 gaaaagaata ttataaaagc gatggaagct attgtaaaaa agctgtcggg agatgccaac 660
 tttaaaagtc ttcattcatt tccacagctg gatgtggcca tcacggctga tgaactgatg 720
 aatatgcctg aagaagcgat acacagtttt aagatcaagt tcagccctcg caattattca 780
 gtcagtcaaa cggatgatga ttcgttactg gaagattttg tgatgcgata a 831

<210> 1606
 <211> 537
 <212> DNA
 <213> B. fragilis

<400> 1606
 aatcaaaaaa acggattgac tacaatgaaa ttaagtaa at tcttatcgag cagaacagga 60
 aaacgtttct ataacctctg ttattgctgg ggagcctgtc tggttatattt gggagccgta 120
 ttcaaaatcg ctcacatgcc ttatgataat ctgtttttaa tgatcggatt atttacggag 180
 gtattcatct tcttcatctc cggatttgac gaaccggcaa gagagtacaa atgggaaagg 240
 gtgtttccgc tattgaatga taaaaacgca aacataaatc cccatacagg agtatcggat 300
 aactgatga cagaaaagta catacaacag ctgaaaagac tggaaaacaa cgtgtgtaaa 360
 ctcaatgaaa cgtacgaagc gcaataaag ggaatgacgg aacacgctaa gtcgttgaac 420
 gagatgaatt cggaggaact gaaaaaggag acagaaaaaa tggcagcata catagaatta 480
 ctgaacaagc aatatagtca gatgctgaat gccatgaatg taaaaaccgg gaaataa 537

<210> 1607
 <211> 192
 <212> DNA
 <213> B. fragilis

<400> 1607
 ttatggaaaa aaaacgacaa gtttaagagt ccgaacgaat tgcttaaaga gttgtccgga 60
 cagggtgttg ccctgggtgcg tgagcttccc aaaccgctt cgagagaaga gatgcgggag 120
 ttgaaacggg tgtgccgctt cctgaacaat acggtgaagg atcaggagcg gaaacaggag 180
 gtgagaaaat aa 192

<210> 1608
 <211> 243
 <212> DNA
 <213> B. fragilis

<220>
 <221> unsure
 <222> (145), (184)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1608
 aaaacacgaa aaagacttag acgtttccct cgaaacatcc aagtcttttc ctctaaactc 60
 ttaagtcttt tcggaaaagg ctttaagagtt tgtcatataa tcattgggtg gtccgggtgt 120
 ttcgaagggc aaaagtccaa agggnaactc tatgagtcag tttccggcaa gccccgcgga 180
 gttntgatat acatatctcc atctttatca attattttta agctctatag tcctcatgaa 240
 taa 243

<210> 1609
 <211> 606
 <212> DNA
 <213> B.fragilis

<400> 1609
 agagtaggaa aaaataataa gaaatatatt atggatgaga aattattacc ttactttgag 60
 aatgttaatg atggaggaga acagggcaaa tacttaaaag aatttggaag tgaagaaacg 120
 caaggaggta tttgtctaca cttatcaatt acttggttat atctatggca taacagcaca 180
 aataaagctc cgaatacgat atggcaggaa atgaaaactc ccactttaat tcaacaaata 240
 gcaagcaacc aaagaagtta ccaacaatat tatccgaata ttgcagataa tgtatcttta 300
 gctactcgta actcccttca tgtaacaggg actaacgcag gagaaattta tcagataacg 360
 accaatgcac tagtcaagag taacatgctt ttgtatgtca tcaatttaga aaaagaccat 420
 aagccagtcg gaagacatgc cattgcagca attgcaacaa gaggacgttt ctatttgtac 480
 gatcctaata ttggtgtaat gtcagtgcct atgccaata tgaaagaact aatagaaaaa 540
 atcccttata tatatggtaa gcattctctc aatattagtc agacttctgt ttataacata 600
 tcctaa 606

<210> 1610
 <211> 345
 <212> DNA
 <213> B.fragilis

<400> 1610
 aagagtatga atcctatatt gaataaaatg ggcgcaaatg ccaatgaaca gaaaaaactc 60
 ttgatggagt gtgtgtcaat gcttgaaaag tatgtgaaca gatttccggc agaaaagggg 120
 tgtgcttcat tctccggaga agatatgaag ctgtggaagg aagtttattt tccgaaactt 180
 gttcagacgg atattttgtt ggacggtaaa tttttctgtg gcacgtcgtc cggtaatagt 240
 ggtattggta cagacggtta ttttaccggg tatgaatttt tccagtttat ttatcgtgcc 300
 tacaaggcac tttatgaact ggaaaaggct tcacaaatga gatga 345

<210> 1611
 <211> 972
 <212> DNA
 <213> B.fragilis

<400> 1611
 tactcaatga aaaagagaga gtttaaaatt tcctttttcc tccatgtgtg ggaaaggaaa 60
 gcggaagaga tttcgtgga agagtttcat aatgacctca ggggagcacg ctggaagggtg 120
 cttgccgagt cgtaccggcg gtggatgcgg acgggcatga cagaggaggg caaaaggctg 180
 aaaggggctc tgaatgcggt ggtcgtggcc ggcaagtgcc ggggcggaca tgcggcgaac 240
 caggtgaccg agctgaacgg actggcgtg ttcgactttg atcattgcct cgagatgctg 300
 gccgggatga aggagaaggc cggggcgtg ccttatgtgg tgggggcttt tgtcagtatc 360
 tcgggtgaag ggctgaagct gattgtgctg atcgatgccg agaatgccgg gcagtatgcg 420
 gtggcttatc ctgtcgttgc ccgtgagttg gagcgggtgc tggggcatcc ttgcgatatg 480
 tcgtgccgag atctgggacg ggctgtctac gcttcgtatg atccggaggc gtactataat 540
 cccggtgccg ggggtgttcc gtggcgggag caggtggacg ggctgttgca ggcggaaggg 600
 gagtgttccg cgcagtcggt gggcaaggct tgtccggcgg gcgttgcttc cgaagcgggg 660
 gatggcttta tgcaggtttt cctgaatgat tttgatgccc ggaatccgtt tgtggcggga 720
 gggcgccatg cgtttgtgct gaagctggga cgtgttgccc ggtataaagg tttttcgccg 780
 gaagaaatgc ggctgttgca aaaagcagtg gttgagaaat acgcgcaggc tgatttcggg 840

agcggagaaa	tagaaaaaac	attatcgtct	ggttatcagt	atgtttctgt	caggagggcg	900
gacgctgtca	tggcgagtca	ggggccaaaa	gtccaagggc	cactctatgc	tctcagagga	960
gggggagagt	ga					972

<210> 1612

<211> 246

<212> DNA

<213> B.fragilis

<400> 1612

attaagatga	agcggataac	ggacaggaca	aatttttccg	tcataaatac	ggtgggtgaac	60
tatagcgaag	ctccctatgc	tgtctgtccc	caatgtaata	tccggacggc	ctgcagaaga	120
tttccatctt	ccatacattc	cgtccggcat	ctgtaccggg	acaggtcgac	aaccccaaaag	180
cacaaatatt	ataaagacaa	aatacaaaaa	aaagctgtaa	tgattcctat	ttttacccat	240
atataa						246

<210> 1613

<211> 1350

<212> DNA

<213> B.fragilis

<400> 1613

aaagtatcga	aaaagagaga	aacaaaaaac	agttttaata	ttttcttaat	gacaaaaatg	60
attatgaaaa	agagtgaact	atttaaaata	ggtgtgttgc	tgatggcaac	gaccttggga	120
acaaccggat	gctctttcgg	agaagacgag	aagaaaccgg	aaattgtagt	ggatcctgcc	180
gaaaaaacaa	tagaataacta	cattgcaggt	aaagtgcagg	aaggaacgac	cgcgctgtcc	240
ggtgtagaag	tgaagccggg	tgaagtaacg	gctacgacgg	atgcggaagg	ggcttataaa	300
ctgacagtgg	acagcaagaa	ggtgtacacc	gtgacattca	gcaaagaagg	gtatatgagc	360
atagacaatg	caacggcaac	catcgcagac	aatgcggcaa	accgcagtat	ggtgagtctg	420
agtgtgaaat	taagcaagaa	agctccggaa	aaagaagtga	aggccgatgc	ggaagaagaa	480
gtgggtgtaa	ccgataaagg	agacagcaat	atttctcagg	cagaagcagc	tgtaattatt	540
cctcccaaag	ccatagaaac	aactacaacc	gtaagcgtga	ctccatatga	agaaccggct	600
gccgtgacaa	caaccgtaac	accgggaaat	aatgtggaga	ctccggtagc	gatcgcaaac	660
atcgaagtgg	aaacagccca	agaggtcact	ctggccaaac	cggtaacact	ggcaatcata	720
aacaaagctt	cggaacatac	aacgttcgaa	aatgtggaag	tgtacaatca	gaaaacaacc	780
acaagggccg	gagaaaactg	gaacaaagtg	gcagatgcca	tttatgactc	ggaacgaac	840
agctataaat	tcacattgcc	cgcaggcgca	tcactgtccg	gaaaatattc	gatgcgtgtc	900
aagagtagca	agaccacagg	aaaagaacgg	ataggcgaga	caaacaagga	agagaaaaaa	960
agcaatgaag	gcaatatgac	tgccattccg	gaatacaaaa	tcaactttga	ggctacggcc	1020
ggatgggcaat	atactgtcag	tccggaaaag	gcgctgatga	atgcaggcgt	agacgctgcg	1080
gatgcccaag	gcatgggcac	gacgatcaac	agtgccattg	aagcgcagga	aggaacgacg	1140
ggaacttata	aagtggctca	cgaactgata	gcggttatca	gcggtaacca	tatcctttat	1200
tacctgaatc	aggctaaata	ttgcgaaaag	acatatcat	tcaaaatcag	tggcggaaga	1260
acagtgacca	tcaccctgaa	attctatata	ggaatgcaga	ttacttacac	caacgtggaa	1320
gcaagccagc	actcgggagg	taagatttaa				1350

<210> 1614

<211> 1212

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (250)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1614

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atagctgcct	ataaagcttg	ttacatcata	cgtggcctga	tcaaacaggg	agctgaggtta	120

caagtcgtaa	ttactcccgc	cggaaaagaa	tttatcactc	cgataactct	ctctgcgttg	180
accggcaaac	ctgtcatcag	tgaattcttt	gctcaacgtg	acggtacgtg	gaatagccat	240
gtagacctgn	gatttgtgggc	ggatgctatg	ttgatagccc	ctgccacggc	ttctaccatc	300
ggaaaaatgg	cgaacggcat	agccgataat	atgttgatta	cgacttatct	ttctgctaaa	360
gcgccggttt	ttgttgctcc	ggctatggac	ctggatatgt	ttgcccaccc	cagtactcaa	420
aagaacctgg	atacgcttcg	ttcgtatggc	aatcatatca	ttgagccggc	ttcgggtgaa	480
ttggccagtc	atctggtagg	aaaaggccgt	atggaagaac	cggagaatat	aatccgggta	540
cttgatgaat	tcttttcac	aacgggcgaa	ctggcgggga	aaaaagtgt	gatcacggcc	600
ggaccgactt	atgaaaagat	tgatccggtg	cgcttcacgc	gcaattattc	ttccggtaaa	660
atgggggtttg	ccttggtgga	ggagtgtgcc	cgctcgaggag	ccgatgtggt	actgattgca	720
gggcccgttac	aacagaaaac	atatacattca	catattaccc	gcattgatgt	ggagtccgct	780
caggacatgt	atgaagcagc	catggcgcaa	tacccttggg	tcgatgccgg	aatactgtgt	840
gcagcggtag	cggattttac	tccggacgct	gttgctgaca	agaagataaa	acgggaagga	900
gacgagttgt	tgtctgcatt	taaacccact	cacgatattg	ctgctgcatt	gggcaagata	960
aaaactccgg	gacagaagtt	aatcggtttt	gctcttgaaa	cgaatgacga	gcagcgcaat	1020
gccgaaggaa	agctgatccg	gaagaacttt	gatttcattg	tgtctgaattc	gttgaatgat	1080
gctggtgcgg	gattccgtta	cgataccaat	aagataagca	ttcttagttg	caggggcaga	1140
accgattatc	cgtaaaaatc	gaagacggaa	gtagccagag	atattattga	tagaatgata	1200
aaagaaatgt	ga					1212

<210> 1615

<211> 1368

<212> DNA

<213> B.fragilis

<400> 1615

tcagatgctg	aatgccatga	atgtaaaaac	cgggaaataa	gacgaagaga	catggctaaa	60
tatacattgc	cgccaaggca	aaagatgatt	aacctgctgt	acgtgggtatt	gattgctatg	120
ctggccatca	atataatcgc	ggatgtctta	gaggggtatg	gacaaatgaa	caacgactac	180
cttccacaaa	taaaaaagct	ggaagaatat	aaccggactt	tactggaaag	aattaacagc	240
cgaaatgata	aagcggcttt	atctgcacag	aacatagatg	cggcggcagg	aaaactaatg	300
gatacactgg	aggaactgaa	agaagatatc	gcccggaaag	cggacaaaga	gaaatatgaa	360
gccggcaagc	taaaggcaaa	agatgacttg	aacgctgtgc	cggagggtatt	tctgtcggtc	420
accgggggga	aagggaagc	actcaggctc	tactgggata	cattcaaaga	agacgcttta	480
tcgtgatca	agaatgatgc	acacagacaa	ctggtaggca	cttacctcaa	tacggaaagt	540
ccgggtaccg	gaatatcctg	ggaaaaggaa	accttctctt	atcttctctg	catcggtgga	600
gtgacattta	tcaataaaat	gcaggaagag	gtgttgctgt	gcgtgaatga	agtatatcgg	660
tactgtctgt	acgaagaggc	agaagatgga	aaaggcggag	cttttgtatt	catcaatgaa	720
gaccagatga	tagtaataaa	agatggaacg	gtggacctgc	ctgtagtaca	gatcacaccc	780
gccttaacaa	gtatcttgta	taccgactat	gaaaaccgcg	taaatatact	gactgcggga	840
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cattgcatag	ccgttcccga	cgaaaaagca	cagacagcga	cagttaccgc	cacacagata	960
aaaaacgggg	tggcaaggca	actggccgaa	taccggtata	ccgtaaaggc	actgcccgat	1020
ccgacacctt	atatactctg	cacggatgaa	aacgggagaa	cgggtacaata	ccgggggaaat	1080
gtgcccatta	acaaacggct	ggtatccaac	atgacacagc	tgggagcttc	aatcagcgat	1140
ggtccgaaag	ccaactacga	gatcagcagc	tttgaaatgg	tattgatcaa	aggaagcagt	1200
aaagcggtaa	cttcaatacc	caacaccggg	aacaaattct	cggccaggca	aatggaactg	1260
atcagacaat	tggagaaagg	agataaattc	tatatcactt	cgattgttgt	gaccgggtccg	1320
ggaaacaaaa	agaaacagat	tgcataatc	aatgtcgtat	taatataa		1368

<210> 1616

<211> 1257

<212> DNA

<213> B.fragilis

<400> 1616

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ttcagcaata	ttgttgccga	accgcagttt	ctgggtgatgt	atgtcattgc	cttcgtttctc	120
ttgtatctgg	gtataaagaa	acaatacagag	cctcttttat	tgggtgccgat	tgccttttgga	180

gtgctgttgg	ctaacttccc	cggcggagga	atgggagtga	tacaggctga	cgagaatggc	240
atgatcctgg	tgaacggagt	aatgaagaat	atctgggaga	tgcctctcca	tgatattgct	300
catgaattgg	gactgatgaa	ctttgtgtat	tatatgctta	taaagacagg	gttccttccc	360
ccgatcattt	ttatgggagt	gggggccttg	acggacttcg	gaccgatgct	tcgcaatctg	420
cgtctgtcta	tattcggggc	tgccgctcaa	ttgggtatct	ttactgtgtt	gttggtagct	480
atcctgatgg	gatttacacc	cagtgaagca	gcttcttttg	gaattatcgg	tggtgcggac	540
ggacctacgg	ccatctttac	caccatcaag	ttggctccgc	atctgttggg	cccgatcggc	600
attgccgcct	attcttatat	ggcattgggt	ccggttatca	ttccactggg	cgttcgtctt	660
ttgtgtacca	agaaggaact	gagtatcaat	atgaaagagc	aggagaagaa	atatccatcg	720
aaaacggaaa	ttaaaaacct	ccgtgtattg	aaaattattt	tcccgattgt	ggtgactacg	780
gtcgtggctc	tgtttgtacc	gagtgcagtg	cctttgatcg	gtatgctgat	gttcggtaac	840
ctggtgaaag	agatcgggtg	caatactttc	cgtctgtttg	atgcggcttc	gaatagtatc	900
atgaatgcgg	caaccatttt	cctgggtttg	tcggtaggag	ccacgatgac	aagtgaagct	960
ttcctgaact	ggacgactat	cggatatttg	gtaggaggat	tcctggcttt	tgctttgtca	1020
atagcaggag	gtatcttctt	tgtgaaactg	gtgaatctgt	ttacgaagaa	aaagattaat	1080
ccgctgattg	gtgctacggg	acttagtgcg	gttcctatgg	ccagccgtgt	agccaatgac	1140
attgctttga	aatatgatcc	taaaaatcat	gtattgcaat	attgcatggc	cagcaatatc	1200
tcgggagtga	tcgggtctgc	cgtagcggca	ggggtgctga	tctcttttct	gtcttaa	1257

<210> 1617

<211> 1197

<212> DNA

<213> B.fragilis

<400> 1617

gaagtttgtg	agacaaataa	gcgcattata	atgaatttgg	accttgactt	catattacta	60
aattttactgt	tattatatac	attctggaaa	gccggtagaa	atatctcgca	aagcatggat	120
tactggcata	atgccggatt	gtgcgtaatc	ctattctcta	ttgtacaagg	ctgccgattt	180
gccagaggaa	atgattactt	tgcgctactc	agaattttcc	gtgaaggtag	cctgcatgtc	240
gaaaatccat	ttttctcagt	cattaatgaa	ttactcagaa	tagttggtat	taatgagtat	300
agttgtttta	tggtgtatgc	gttcacattt	gcattgtgcg	ccatgatattt	tatgaaagac	360
tatcgcacgt	atgccagata	tatgttccca	ctattcttga	taggcttcat	gaacttcgaa	420
gaaagcatga	tacgccaggc	attcagctac	tcttttttct	tcctatatatt	gaaatatctc	480
tttaagttga	aatttaacaa	gccaaaggat	atattgcata	accataaaaa	attaatatac	540
tgcataatat	ttgccatact	aacattagcc	atacacactg	gcaatattat	aagcttattt	600
gtaatcacca	ccctctatat	attttggcgt	aaacctttcc	agccacagtt	tgccataccg	660
atatatgttg	cgtgtgtcta	catattacca	catatattta	atttcaattg	gctggaacct	720
attttaagct	ctgcagcaga	cacaaacgaa	cgtgcagcag	aatatgtgaa	gaatgctgac	780
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aaagtagcct	atgtctgtct	cctttgggtt	gtttattact	acgtaaaata	cttattcttc	1140
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<210> 1618

<211> 1182

<212> DNA

<213> B.fragilis

<400> 1618

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cacaaccaac	tggaatctat	caaaaatgac	ctggccattg	cgggagaaat	ccagcaaacg	480
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<210> 1619

<211> 480

<212> DNA

<213> B.fragilis

<400> 1619

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aagctggacg	aaggcatgaa	aggtacaatg	gctgattatc	agatagggtt	tggtgctgaa	420
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<210> 1620

<211> 405

<212> DNA

<213> B.fragilis

<400> 1620

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<210> 1621

<211> 621

<212> DNA

<213> B.fragilis

<400> 1621

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ctggattatc	tgatgaaaat	cgcatttgaa	tcctatgatc	ctgtgacagg	acggaccggg	180
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tcggcaaata	tgaaagtgaa	agtgaagatg	cgtcaggcag	atatgcctgc	ggggttgctc	540
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621

<210> 1622
 <211> 582
 <212> DNA
 <213> B.fragilis

<400> 1622
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 ccgttccgaa aggaaattcc gaaaacaatt cccgtttagt aaactgcccc tcagccggta 180
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 aaaatcactg aaattagatt tgaattaaat attaaaaaat ga 582

<210> 1623
 <211> 573
 <212> DNA
 <213> B.fragilis

<400> 1623
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 atcaaaggcc ccctcgccgg actggaaggc gagctgggtg ccatcgacgg caaaagcaag 480
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 gagagagtgg gaaaaatgga ggcggtgaga tga 573

<210> 1624
 <211> 1650
 <212> DNA
 <213> B.fragilis

<400> 1624
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 gtcgagactg cctgtcgggt gaagaaagaa ggcaaatgtg atatggtagt actcttgatg 720
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ggttatgaca	gcaaattatt	ttcaggttat	gaaataggag	attttaatag	tcagaatctt	1560
gaaacaactg	tggctttttat	tgattatttg	aagagtctga	aagggtttgt	ttcctctgag	1620
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<210> 1625

<211> 228

<212> DNA

<213> B.fragilis

<400> 1625

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gctaattgac	cccgttttct	ggctgacctg	aatccggcag	ataaattcat	ggagctcaat	180
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<210> 1626

<211> 777

<212> DNA

<213> B.fragilis

<400> 1626

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gaagagtcga	aaactctccg	tatcaatccc	gaaatgccta	tccctgccga	atcatctgct	180
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attcccgtgt	tggcagaaga	atttctgcgt	gcgggtgtgg	atatcgatat	gagtaagcgc	360
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<210> 1627

<211> 1107

<212> DNA

<213> B.fragilis

<400> 1627

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aaaccattat	tatctatgcc	taaagtttta	gtagtggcca	cctctcgtaa	aaccaaagga	120
ggaatcactt	ctgtagtaaa	agcacatgaa	acaggagaac	aatggaaaaa	gtttcattgt	180
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ttaagaacat	cagtcaatag	aaaacttata	tttgacggga	ttgctcttct	gtttagaaag	360
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ctatcagaca	gaaaaggcta	caaccgactt	attgaagcat	tcagtaaaat	tgctgcaaaa	660
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gctgttaa	ttggtataga	acaacaaact	gaattcctgg	gttggatagc	cggaataaca	780
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aagatgttgg	ctgacaaatt	agaacaatta	ataaaatcgg	agacttatag	gaatagtata	1020
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<210> 1628

<211> 1137

<212> DNA

<213> B.fragilis

<400> 1628

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aataccagca	ataatcatgc	aggtataaaa	tacttatgca	accaaattca	ggagatgtat	180
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aaaaagttgt	acaatcacat	aatatcaaag	ctacgaaaag	gagataaaat	aattcttatg	360
gaatacatgg	agaaattttt	tcccatgctc	cattttgcac	aaaaagtga	aagatataaa	420
ttcaacatac	ctctctacgc	aatggttcac	cttggtccaa	gccggttgga	aaaaggattc	480
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<210> 1629

<211> 897

<212> DNA

<213> B.fragilis

<400> 1629

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gaacgggtag	aggaactggc	tcacatgttg	agtgggtgcca	ccctgacgga	ggcggcgctg	840
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<210> 1630

<211> 792
 <212> DNA
 <213> B.fragilis

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 ggtaaaagta gggcattttat caatgatata cctgcttcgc tcacacaaat gaaagaactg 360
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<210> 1631
 <211> 456
 <212> DNA
 <213> B.fragilis

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<210> 1632
 <211> 579
 <212> DNA
 <213> B.fragilis

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<210> 1633
 <211> 687
 <212> DNA
 <213> B.fragilis

<400> 1633
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gcagaagtga	acaaacaagc	cataaaggca	gaaagagtta	ttcgctgttt	actgcaaata	360
cacatcgctc	aagaagaaac	caagtttggg	ttcagttttg	acgaatgcaa	agagatgttg	420
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catgaagtga	aaaaacaata	ttttgccaac	gaaccgactt	tttgcgaaact	ttcaatggga	600
atgtcccatg	actatcatct	ggccattaaa	gagggcgagta	cattggtaag	agtaggaagt	660
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<210> 1634

<211> 1044

<212> DNA

<213> B.fragilis

<400> 1634

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cgtatctatc	cgacagtgtt	tacatgggcg	ctaattgcag	cgtatttttt	cgatcagcgt	300
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aatattttcc	cattaaatct	attagtaata	ttttccacta	ttcttggtac	agcttacctt	960
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<210> 1635

<211> 951

<212> DNA

<213> B.fragilis

<400> 1635

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<210> 1636
 <211> 903
 <212> DNA
 <213> B. fragilis

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 ggtgtacttc atcacgattt gaaactcctg cagttagata ccataattta tactcagcaa 300
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 gaaatcgatc catctgatga tatacggaaa gaactagaac ggataatgga agaaagatta 780
 accgggcgta cctattttgta tcacctgaag tcagatcttg cagaggctac gcatcaatta 840
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<210> 1637
 <211> 402
 <212> DNA
 <213> B. fragilis

<400> 1637
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 cagcttccta ttgatgcggc tacgggtgtg atgcctgatg gtgtggaggc gcaagccgcg 180
 cagtcactcg agaataataa acatatacctt gaggctgccc gtctgacaat ggcagacatt 240
 gtaaaaaaaa ctgttttctt ccaggatatg tctctgtttg ccggaatgaa cggagtatac 300
 gcaacttatt ttgacgggtg atttcccgcg cgttcggctg ttgccgtgaa agccttgctt 360
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<210> 1638
 <211> 885
 <212> DNA
 <213> B. fragilis

<400> 1638
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 ttggcagcaa aaacaacttg ggaattttatt cagaatgtag gtataaatgt taatcccga 180
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 cggttgattg ccacctataa ggatggcagc ggtctgttgg ctccctgaaa actgactatt 720
 acaggaaccg gagccaatgc ggccgacttt aaggtaagtg gtgacagtaa gattatcgac 780
 ttgccggaag gtacatatat tatcaaagca gaggggaagc agaaggaagt gattgtcgaa 840
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<210> 1639
 <211> 267
 <212> DNA
 <213> B.fragilis

<400> 1639
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 aaatatgctc ctgaagaaca gcttcctgca aagcagggtg cccaatcacc gggtcctatt 180
 cccggaaaata ttgttgcaac cattacggcg gccgttaatg tggtgactca gggaaaagg 240
 aaagtggcta aaatcgagaa aatctga 267

<210> 1640
 <211> 1179
 <212> DNA
 <213> B.fragilis

<400> 1640
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 ataataaatt acctttatta taaagactgg catttttaaag acactcccct atcacaacca 180
 tttgtacctt tagacatgaa aggtaaacta agctactgga taaaatacag actaatgagt 240
 tgggtagtaa ataaggatatt acctatattc aatgggaaca tgagacgaag gttacacaac 300
 tatcaatcat ttatagatag tgagcgcttt tcagctcaat acaaatcaat ggatgagttg 360
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 ctcaaaagta taatagagaa taaagaacaa aaatgctaa 1179

<210> 1641
 <211> 576
 <212> DNA
 <213> B.fragilis

<400> 1641
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 aagcgtttca ataatacata gcctaataata aaagactggt tattacacaa tgaaatatgg 120
 tatactcttc actatattcg tcattttgcgt tatgtggaat attataaaaa caccaacaaa 180
 aataaaattc tattttttcta ccattttttc cgttataaac gactaggttt caaactaaaa 240
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 tttggactcg gagccaaaat tttcggttcc attataatag gaaacaacgt taccatagga 480
 gcaaatgcag tggtcacaaa ggatattcca gataacgcca tagttggtgg gataccagca 540
 aaagtattaa gattcaaaaga aataaatata ctataa 576

<210> 1642
 <211> 585

<212> DNA

<213> B.fragilis

<400> 1642

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ggaaagaatt	gcaaaatata	tcagcaagtt	accattgggt	atgaccatac	tttgcaggct	420
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attggcaata	atgtcatcat	cggagccaat	gctgttgtaa	taaaagacgt	accaaacaac	540
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<210> 1643

<211> 1611

<212> DNA

<213> B.fragilis

<400> 1643

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<210> 1644

<211> 678

<212> DNA

<213> B.fragilis

<400> 1644

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<210> 1645

<211> 2442

<212> DNA

<213> B.fragilis

<400> 1645

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aaatattatc	cgaacgctcc	tgttttgcga	ttgccgacag	atcattggca	cttttttagaa	2400
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<210> 1646

<211> 714

<212> DNA

<213> B.fragilis

<400> 1646

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atgcaacaga	caggtacctt	catgatcggc	ggtaactatt	tgctgaaga	actgaatcct	180
tttaaataca	actccggaaa	ctatttcgtg	aacatcacct	tcttttcatt	cctggaattg	240
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caagacagat	cgttatctgt	aaggctccgc	ccgctgaaag	agggtaaata	ctggccggca	360
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ttcaatgtag	gagcggccgc	aaagttgtgg	aaacatctct	caactgaacgt	gtttacccgc	660
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<210> 1647

<211> 621

<212> DNA

<213> B.fragilis

<400> 1647

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atactccagc	ccagagggtg	agttttctaa	accagcggca	acgaatggaa	agcccaggag	180
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tttggcaaaa	ggcataaaaac	cccgaaggtt	cttcaagatc	tttcgggggt	ttataccttt	540
tatgggggtc	ggaaatgtca	tcagactcac	ctttgtaaat	caataccaca	ttgggatata	600
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<210> 1648

<211> 1230

<212> DNA

<213> B.fragilis

<400> 1648

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atcactgaag	gtgaattcag	agacaaaata	gaggcagtgc	tccctacctt	gcctcaaggg	180
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caaggagatt	ggcgtttcta	taaacactat	aagaaatggc	aatggaagac	ttacgagatg	300
gcacaggaaa	taatagtcaa	acaacatata	gatattgtac	accaattaaa	tatgattggc	360
tttagagaac	ccggatacct	ttggaaacta	gataagccat	ttgtttgggg	accggtagat	420
gctaaagaaa	aatttccgac	agcatatcta	agagatgcag	ggataaaaagc	aaacttattc	480
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tttgccggaga	agataacata	tctgtttaac	catagagacg	tacttaagca	aatgtctgaa	1140
aattgcagag	tccgtcaaga	ggaactatcg	tgggacaata	aagccaaaca	gatggtcagt	1200
ctatataaaa	aagtattgtc	acaagaatga				1230

<210> 1649

<211> 768

<212> DNA

<213> B.fragilis

<400> 1649

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aacacccatc	aaagcctgtc	tgaagcattg	gaggctgtga	aacgcacgga	agcggaaggaa	660
aacctgctga	ttcacatgag	tcaccatata	ggacttcagg	cagatgtaga	gaagcaactt	720
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<210> 1650

<211> 1863

<212> DNA

<213> B.fragilis

<400> 1650

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gcacctgcta	ttgttgaaat	gggatgtttt	gcccggttag	aaacaaacgg	cggtgggttt	180
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gcaaatatca	aagctgtgca	tcccgatatt	cctattcaat	atcacagcca	tgaggagccg	660
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<210> 1651
 <211> 798
 <212> DNA
 <213> B.fragilis

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cctaaggaat	cgggtatgggt	agtgatcgag	tttgacgaac	gcaacgctgt	cttcacgctt	360
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cgtcgtgtat	ctattttttc	ttcgcaggca	agcagcctta	taaaactccg	catgcaggaa	540
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atcctgaata	atatctcggc	ggacgaagtg	gttatcgaat	tggtgatcc	gtcaagggcc	720
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<210> 1652
 <211> 849
 <212> DNA
 <213> B.fragilis

<400> 1652						
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gagatacaga	atccttttgaa	ttttgtcatc	aatttcagta	aactgtccgg	tcaattgttg	180
gccgacctgg	ccgataggggt	ggatgaagca	aaagctcgta	ttccggaagc	ggaactggaa	240
gatatacaaag	atatactttc	cgggctgaga	gagaatgtgg	acaaaatcaa	agagcatggt	300
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<210> 1653
 <211> 1323
 <212> DNA
 <213> B.fragilis

<400> 1653						
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atggccttgca	gtgatgcatg	tacacatgat	gctatcaaga	ttgtggaaaa	gaactgtatg	180
ccattttgtga	aagtagatac	ccataaatgc	atgaattgtc	atgtgtgtga	aaaagcatgt	240
ccgataataa	ctcctgtaaa	aaagaacaga	gctgaaaaaa	tgaatgtata	tggaggttgg	300
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caaagctttt	tccacctgca	taaagaagat	aaagttgccg	tcattggagc	tacactcgca	420
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agcaaatata	tacaaagcga	tactcaagga	atatataaag	aagttataga	gagactaaaa	540
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gcggatatta	caatagcaga	tttttgggga	ttacaggtag	cagactatta	taaacagggt	960
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gcactctata	aattgggaac	aatatatctg	gttaagtacc	aaaagaaaca	attaatcagt	1260
aaatttcaga	aagatgataa	cctacttaaa	ttgttaaata	atgcaaatag	gggggggggg	1320
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<210> 1654

<211> 999

<212> DNA

<213> B.fragilis

<400> 1654

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attatccttg	tggatgacgg	aagtccagat	aattgtcctt	tcatttgcca	taaatatgca	180
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caacgaatga	cgacacctca	aattgcacta	acatttccta	taattttatta	ctcactctat	960
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<210> 1655

<211> 237

<212> DNA

<213> B.fragilis

<400> 1655

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tcctgtcact	tgcgtttgaa	catagaccgc	atgaagtcga	aagcagcttt	tgacgcattg	180
cggaaagttc	agaatgcgca	ggagaatttg	gagagaaaaa	gcaagttcaa	cgggttaa	237

<210> 1656

<211> 1218

<212> DNA

<213> B.fragilis

<400> 1656

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ggtgctatta	tcatgcagga	ggatgaacaa	ggattccttt	atccacatat	caacactaca	180
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agcaataaaa	aaaatgtaa	tccccatatt	ctcgctcttc	atcatcataa	tgaaaaaact	300
tggatatcct	cctctagtgg	tggtgtatct	gcctccctta	cagactatgc	ccttcggcaa	360
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gaaacccaag	aagacacact	gaaattcaga	ggttccaaat	atgtgcaaag	taatttaact	480
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agcaacatca	aagaatgcac	acaacctaata	ctaaagtatc	ctgtaccgga	accagtcaac	1080
aaagctacat	tctggcagga	ttatgcttca	atgcctttct	ttcaaataat	gaacaaatac	1140
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aaaaaacggt	ttacatga					1218

<210> 1657

<211> 924

<212> DNA

<213> B.fragilis

<400> 1657

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acaattcgca	tcccggttat	tatgaaattg	ggcagtaact	ttaccaatcc	ggtagccttg	480
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ccgatattg	acgtagagaa	gatggagcat	acttcaggag	acgtgttcag	caacgcaccc	600
gacctttcga	caaccctgcg	ttggataggt	atctcttctt	cactgggtatc	taaaattgat	660
tatgccgctt	caggaggaat	tcataaaccg	gacggaattg	taaaagctat	tttagcagga	720
gcatcggcca	tcgaaatatg	tagtgccatc	taccagaaca	ccaatctgtt	tgtaggagaa	780
atgaaccgct	tccttagcgc	atggatggag	cggaaaggat	ttaagcacat	ctctcaattc	840
aaaggtaagc	tgaacgctaa	agatgtggaa	ggcatcaata	tgtttgaacg	taccagtttc	900
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<210> 1658

<211> 186

<212> DNA

<213> B.fragilis

<400> 1658

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gatgttaa	attatgggt	gcgtaggac	aaatcgaagt	ttcatgttct	taattataat	120
atatggttac	ttgtttattt	attgtatgaa	agtaaggaaa	tgcaatacat	gattgattat	180
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<210> 1659

<211> 363

<212> DNA

<213> B.fragilis

<400> 1659

aattttaaag	ttttatatat	gggtaaaaat	aggaatcatt	acagcttttt	tttgtatttt	60
gtctttatca	tatttgtgct	tttgggttgt	cgacctgtcc	gggtacagat	gccggacgga	120
atgtatggaa	gatggaaatc	ttctgcaggc	cgtccggata	ttacattggg	gacagacagc	180
atagggagct	tcgctatagt	tcaccaccgt	atztatgacg	gaaaaatttg	tcctgtccgt	240
tatccgcttc	atcttaattc	acctactaaa	gggtatatcc	gtgcagaagg	ttgcatcctg	300
ttttattatg	acagtttgaa	atgtgtttta	tacttctctc	ccggaggtga	ttatacacia	360
taa						363

<210> 1660

<211> 195

<212> DNA

<213> B.fragilis

<400> 1660

atcaatgaag	taacagattc	attgaaaaaa	ccattaacaa	taattacat	ggccgactta	60
aaaacaactt	ttgcgggatt	gactttgaaa	aatcctgtaa	ttatcagtag	ttcgggactt	120
actaacagt	ccgctaaaaa	acgcaaagct	ggaagctgcc	ggtgcaggag	ccattgtcct	180
gaaatcacta	tttga					195

<210> 1661

<211> 1116

<212> DNA

<213> B.fragilis

<400> 1661

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gactgggaac	ttattttaat	agatgatggg	agtacagaca	acacatggga	tatttgcaat	180
agctttacaa	agaacaatgc	tcatattcat	gccgtacaca	aagaaaacgg	tgggtgtcagt	240
tcagccagaa	atacaggaat	tgagatagct	aagggagagt	tcataacttt	tatcgattca	300
gatgactatg	taaagccgga	ctaccttcag	aaattggtag	aaggccagga	agcagactta	360
gtattatgtg	gctttcgtag	ttccacggga	atagacttca	caccagaacc	tcaataacctc	420
attggagatg	accttagtaa	aaatatacaa	gccatcgtag	agaatgacta	tttactttat	480
tccccttggg	gcaaactctt	tcgtcgtgat	attatccaaa	aacaccaaca	ccgctttgat	540
cccgaatttc	gtttagggtga	ggacactatt	ttttgttata	agtacctgct	ctattgtctc	600
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tcctacaaga	tgcgtttgat	acattacttg	gtaaaaagca	aacattacac	gatggcccat	1080
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<210> 1662

<211> 1398

<212> DNA

<213> B.fragilis

<400> 1662

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gactacaatt	gcctgaagaa	ttttcaggag	aatgatattt	atcttccgat	tgttggtttg	180
gaagaattgg	ataagttcaa	gaagggaaat	gaacaaatca	attacaatgc	acgtgagttt	240
gtacgcgaac	tcgatttgat	aaccgacgac	agtctgttta	cccatgggtgc	tccttttaggt	300

gaggggttg	gtaagtgtt	tattgtcact	ggcgattcgg	aggctcccaa	ggtacatgaa	360
tcgtttccgg	cccgtaaacc	ggatcatcag	atattggcgg	tagccgaata	tttggcccgg	420
aaatatccga	agatgaaaaa	tattctgggtg	accaaggatg	tcaaccttag	gatgaaagcc	480
cgttccatcg	gtatactttg	tgaggactac	ataaccgata	aggtgggtgaa	tgtcgatatt	540
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gaatgtttta	ttctgaagag	cgatcgagc	agtgtgcttg	cccgtacaa	tccttttaca	720
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cagaagagtg	agcaactggg	tatcgaggca	ttggcattca	ttcgcgagc	aagcctgagc	1140
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caaccttatc	tggatagtc	gtccaatggc	ttggtgtata	tgatcgatcg	catgaaagat	1320
cagaacctct	ttgcgcatgt	caacttggtg	aaaggcgaac	gtagtgaatt	gagcgaattg	1380
gcaagtaacc	tgatgtga					1398

<210> 1663

<211> 210

<212> DNA

<213> B.fragilis

<400> 1663

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cgtgttaaag	gacaacctta	ttttttgctg	tcctctcggc	aaacctcac	tacttgttat	120
ctgggaccca	ttaataacaa	cctctcttct	gacaatcgct	gttggcattt	atcacacaat	180
tgaaaaacaa	cctttcctaa	acctttgggc				210

<210> 1664

<211> 507

<212> DNA

<213> B.fragilis

<400> 1664

tcgtggctat	cctctccaca	atcgcccttat	tcgggtttcat	cctttgggtta	ttcacccttt	60
aatcttaccg	acagcgatat	gaaaacgaca	gaccatttca	agagaacgat	acagatgtat	120
ttggagcaac	gtgcagcgga	agatgcgctc	tttgccaaaa	actaccgcaa	ccagccaag	180
aacatagacg	attgtgtgac	ctacattctg	aactatgtgc	agaaaaagcgg	ttgcaacggc	240
ttcacggagc	gagagattta	cggacaagcc	gtacactact	atgacgagaa	cgagatagag	300
gtgggcaagc	ctatccagtg	tcagatagcc	gtgaaccatg	tggtggaact	caccgcagag	360
gaaaaggcgg	aagcacgaca	gaacgctatc	cgacaatacc	aagacggatt	gatgcgcgaa	420
atgcagaacc	gcaacaagcc	gagaaccgcc	accaaagcga	ccgtccaaga	agtacaacaa	480
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<210> 1665

<211> 645

<212> DNA

<213> B.fragilis

<400> 1665

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tataaatctt	ttgataaccg	ggaggaagca	gaacgagctt	tcgctgcac	accttatgct	180
tatattggta	aaaatgcaaa	gaaaaaaata	accggacctt	ccactgagat	gctaccggca	240
gcagtcatag	aaaacagcct	cgctgtggac	gctgcatgca	gtggcaatcc	gggcccgatg	300
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ggtaccaaca	atatcggcga	gtttctggca	ctcgtacacg	gtcttgcttt	gctgaagcag	420
aaaggggttcg	acatgccaat	ctatagcgac	agtgcaaacg	caatcagttg	ggtgaaacaa	480
aaaaaatgca	agacgaaact	ctcccgtacg	gcagaaactg	aagccctggt	tgtattgata	540
gaacgcgcag	aaaaatggct	taaagaaaat	aagtatacca	ctcccatatt	gaaatgggaa	600
accagagaat	ggggagaaaat	cccggcagac	ttcggaagaa	aatag		645

<210> 1666

<211> 636

<212> DNA

<213> B.fragilis

<400> 1666

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gagcggattg	tcaatttagc	tgctactcat	gtgccttctg	ctttcaactc	tcaatcgact	180
cgtgtagtgc	tattgctggg	tgagaatcat	aagaaattat	ggcatatcgt	aaaagaaaca	240
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caggaagcat	tcagcagtta	taaggataac	ttccccgggt	ggtcgctgca	gacttctgcg	420
atgcatcagc	tggtctgtatg	gacgatgttg	gaagatgtcg	gcttcggagc	ttctttgcaa	480
cattacaatc	cgctgatcga	tgaagaagta	cgccatacct	ggcatttgcc	tgaagagtgg	540
catctgattg	ccgaaatgcc	gtttggactt	ccggtacagg	gacctggcga	taaagatttt	600
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<210> 1667

<211> 1221

<212> DNA

<213> B.fragilis

<400> 1667

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tctgatttta	atgagcgttc	tttgcatctt	gttgtttgca	tggagaagca	gctttctgct	180
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gttgccgggt	ttttatcttc	tacttgttgg	tcggtgattc	gatactcttc	ttcttcattt	420
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aatcgtttat	ggacggctgt	ttctcgtttg	cgtaaagctt	tagcgcttac	tcgtgttatc	1140
ataaaggtga	aaaatgaagg	cgggtatcag	ttagtgtctg	ctaaggagag	tgatgacttc	1200
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<210> 1668

<211> 2145

<212> DNA

<213> B.fragilis

<400> 1668

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acaatcattg	cagaaaagcc	atccgtggca	cgtgagatcg	cccgcacgt	gggcgcgaca	120
aagagagagg	aaggatattt	cgagggaggc	gactgtgccc	tgacatgggc	attcggacac	180
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ggcaagagct	tcgatgccgt	ggttgccttt	gacggggact	acaacacgac	tttcgtgttc	2100
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<210> 1669

<211> 480

<212> DNA

<213> B.fragilis

<400> 1669

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gcgaccgacg	aagccttcat	ccgtgaacgc	gccgaccgtg	ccgccggaac	gtatgaatgg	180
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aacgtattct	ccattttatga	cctctcggac	gacaattttc	ccctgtcgcc	cgattacgac	420
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<210> 1670

<211> 333

<212> DNA

<213> B.fragilis

<400> 1670

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catcagccc	tattcgccgt	accgggcgtt	cagcgcaag	gtctgccata	cgaggacgga	120

agacgatgcc	gcgccgaagc	cgatacatat	ccactggctg	atgccgacca	tgtaaaggat	180
gacgaacagg	acgaagagag	ccagcagacc	tccgcagaag	atgaagaggt	actgagcctt	240
cagacccttg	aactcgaccg	gacggccgat	acccttgttt	atcgggtatt	cagccatacg	300
ttattttatta	aaggaagaat	gagcgcagga	tag			333

<210> 1671

<211> 903

<212> DNA

<213> B.fragilis

<400> 1671

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atgaaaacaa	tatttcggga	gcttcgggata	gatatgtctg	aatgaagaa	atataaatta	180
cataacggat	atgaattgga	agatgtattt	togatccgtc	cccaaacaat	atctgccccat	240
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gaagaattat	ccattcataa	atacacacaa	cacaagagat	ggacattagt	atattacaaa	360
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caacgttcga	gcgatatcaat	tcatatccga	agaggagatt	atacatcagc	taaaaacaaa	540
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agttggtggg	gagcatggct	aaatgcctat	aaggataaaa	ctgttatcgc	accttcacgc	840
tggtcaaacg	tcaagaagac	acctcacata	cttccggaaa	gctggatttc	gatagatata	900
taa						903

<210> 1672

<211> 903

<212> DNA

<213> B.fragilis

<400> 1672

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ataatagttg	tcgacaatgc	cagccaggaa	acagactatc	aacaccttac	tgaaaatctt	180
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<210> 1673

<211> 507

<212> DNA

<213> B.fragilis

<400> 1673

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<210> 1674

<211> 3069

<212> DNA

<213> B. fragilis

<400> 1674

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<210> 1675

<211> 1167

<212> DNA

<213> B.fragilis

<400> 1675

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<210> 1676

<211> 1251

<212> DNA

<213> B.fragilis

<400> 1676

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accgattata	aaataagccc	cgaacgaaaa	ggagaacttc	ttctggagtt	ggacaatatc	180
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<210> 1677

<211> 1284

<212> DNA

<213> B.fragilis

<400> 1677

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<210> 1678

<211> 2514

<212> DNA

<213> B.fragilis

<400> 1678

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<210> 1679

<211> 312

<212> DNA

<213> B.fragilis

<400> 1679

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<210> 1680

<211> 843

<212> DNA

<213> B.fragilis

<400> 1680

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<210> 1681

<213> B.fragilis

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<210> 1682

<211> 1353

<212> DNA

<213> B.fragilis

<220>

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<222> (1196), (1224)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1682

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<210> 1683

<211> 1437

<212> DNA

<213> B.fragilis

<400> 1683

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<210> 1684

<211> 1008

<212> DNA

<213> B.fragilis

<400> 1684

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<210> 1685

<211> 1128

<212> DNA

<213> B.fragilis

<400> 1685

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<210> 1686

<211> 1284

<212> DNA

<213> B.fragilis

<400> 1686

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tgctttgccg	gaatccgtgc	cgtcgccaa	cgttgccgta	tcaccaagca	tatcacatgg	1080
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<210> 1687

<211> 186

<212> DNA

<213> B.fragilis

<400> 1687

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gtgactgtgt	ctcctaccgt	ttatttcagg	aaatttctct	actggatcgg	actcaccggt	180
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<210> 1688

<211> 255

<212> DNA

<213> B.fragilis

<400> 1688

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tttctatcta	ttaagaaaac	gttccttact	aaaacttaca	agttgaaaat	caataaaaatg	180
cctccttaca	agaacttaca	tcaaaagagt	tctctctgcg	agaagtcac	actctcctta	240
ggcagcacta	actga					255

<210> 1689

<211> 345

<212> DNA

<213> B.fragilis

<400> 1689

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gtattcgttc	tcgctgaaaa	cgtcttttcg	ggtgcgcaac	gcttccaact	gcataccgca	180
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tccgcactcg	gtacagatat	tcgtgccgct	cgcctctctg	attgcgtaat	gcttgaagca	300
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<210> 1690

<211> 201

<212> DNA

<213> B.fragilis

<400> 1690

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ctgcgggtag	tatttttccc	gaaaaacctt	gcattcccta	atccctacct	ttttaagcac	120
ccgaaacgaa	aacgaccgat	gcgacagaaa	gacgcattaa	aaaaaatgtc	ggataaacga	180
gaggcagata	agatagtttg	a				201

<210> 1691
 <211> 1599
 <212> DNA
 <213> B.fragilis

<400> 1691
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 cccgcgaaaag cggagaacgc gcagagtttc ctgcaattcg accgccacgg cgatgtgctg 180
 gacaacttct tcaaaaactt cttccggcag tgcaaggaaac ccagccgctt cggtttctac 240
 cgtgtcgcag cagaccaagc cgacaaactg atggagggtga tgaaagacct gctgaaagac 300
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<210> 1692
 <211> 2358
 <212> DNA
 <213> B.fragilis

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 aatagcctct atgaatggca ggagatagaa gcattagaac ttggcaataa aaaaatagac 180
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 gaaacaatac tggaaatggaa cgataaagat atcgagcatt accatgcacg gcgtatggca 300
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 cgcagtcttt tagaggataa ggaacgacag atgttccaga tagtccggtt aatggatgaa 420
 caacaatcta ttaacaagaa gatagccaat caaattccgg ttattgtgca gaaaagtgtg 480
 caggaacagt ccaaaaagcc aaaacgaaaa ggtttcttgg gcattcttgg caaaaagag 540
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 gaacagaaaag cgcagagccg tcgattgtca gaacaagccg atagtcttgc tgcccgtaat 660
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gaaaaagaga	tgagacaat	acgggaagcg	gcaacagaaa	aagacctgca	aaagctggat	2160
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<210> 1693

<211> 417

<212> DNA

<213> B. fragilis

<400> 1693

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gacaaccgcc	gcgacctact	ttgcggaaac	tgggagagcg	tggagggaaa	gcccgcagtg	180
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cgtaagctga	aaccggaaac	ctatctcttg	caggaagaaa	acggcaacct	gtttatgaac	300
accggattcc	gtatcgacgt	gtcctacaac	gaagcgacgg	acatcctgac	cttctcgccc	360
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<210> 1694

<211> 402

<212> DNA

<213> B. fragilis

<400> 1694

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tgccaatacg	gacattggac	ggaatacaag	gcaacggaca	agaccggact	tcgcagatac	360
ctatacggca	ggatagacaa	cattgtagaa	cttgaaaaat	ag		402

<210> 1695

<211> 525

<212> DNA

<213> B. fragilis

<400> 1695

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aaggcggttg	cactctgcct	gttcgctgcc	gtatcgctca	cgctcgtgtc	gtgtgacgat	120

gacatggaca	tccagcaatc	ctatcccttc	acggtggaaa	tcattgcccgt	acccaacaag	180
gtaacgaagg	ggcagacggt	ggaaatccgc	tgtgaactga	aaaagacggg	cgattatgcc	240
aacaccctct	ataccatccg	gtattttccag	ttcgaggggg	aaggcacgct	gaaaatggac	300
aacggcatca	cgttcctgcc	caacgaccgc	tacctgctcg	aaaacgagaa	gttccggctg	360
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gacaactcct	acgagctgga	atttgacttc	aacaaccgta	acgtgaagga	tgacgggggt	480
atctctgttg	tccccatcgg	aaacttcaaa	cccctcacac	gatga		525

<210> 1696

<211> 453

<212> DNA

<213> B.fragilis

<400> 1696

ggattaaaac	acttatctat	atatggatcg	ggaaatacca	cttttacaaa	tggaataaaa	60
agccatgatg	aactgcaaat	gtctatctat	ggctcgggaa	acatcagcgg	aaacagtttc	120
tcattgacaa	aactggcagc	acgtattttac	ggttcaggaa	atgtcaacct	gaaaagaatc	180
agtacatccg	acacccaagt	aaacattttcc	ggctcgggaa	atgtactgct	agacggcaaa	240
tcgaccgagg	ccgaatatca	cattgcccgg	tcgggagaca	ttaatgctac	cgaattaaaa	300
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aatctgacag	gaggagtcag	tggcagtgga	aacgtagcct	ataaaggcaa	cccgcataaa	420
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<210> 1697

<211> 1302

<212> DNA

<213> B.fragilis

<400> 1697

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aatagagaaa	gacatttttt	caacgataat	tatgtattag	ataatgctct	atgggggtaca	180
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acatgccaga	tttttataga	gcaacgtcag	caaactatag	atttaaaccg	agagcaaaaa	300
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tctgttacta	aaattgtatg	ttggatttta	aatacagaaa	ataagctgtt	aaggggtatct	1260
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<210> 1698

<211> 1161

<212> DNA

<213> B.fragilis

<400> 1698

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<210> 1699

<211> 741

<212> DNA

<213> B.fragilis

<400> 1699

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ggctgtaacc	tgtggttcc	gttcctgctg	ctctacgacc	gcatcatgga	aacgagattc	120
gtccgcttcc	ttaaaggcat	tgcgggactg	tggagggtcg	tggacggcat	ggcggcaaag	180
caggaaacgg	tacggggaggc	atctcccga	gaaacatcgg	acatcatcgg	caagagccgt	240
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<210> 1700

<211> 252

<212> DNA

<213> B.fragilis

<400> 1700

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 1701

<211> 1359

<212> DNA

<213> B.fragilis

<400> 1701

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<210> 1702

<211> 1302

<212> DNA

<213> B.fragilis

<400> 1702

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<210> 1703

<211> 258

<212> DNA

<213> B.fragilis

<400> 1703

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<210> 1704

<211> 234

<212> DNA

<213> B.fragilis

<400> 1704

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<210> 1705

<211> 2826

<212> DNA

<213> B.fragilis

<400> 1705

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<210> 1706

<211> 441

<212> DNA

<213> B.fragilis

<400> 1706

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aggctgcatt	tttccgagaa	aaaggcgatg	gcgttgcttt	acaagctgga	acaacagacc	360
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<210> 1707

<211> 285

<212> DNA

<213> B.fragilis

<400> 1707

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<210> 1708

<211> 942

<212> DNA

<213> B.fragilis

<400> 1708

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ttttctatca	agaagtttgg	taagcgcatt	tctatggcta	cttattaccg	ttgtatgttc	300
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<210> 1709

<211> 597

<212> DNA

<213> B.fragilis

<400> 1709

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<210> 1710

<211> 810

<212> DNA

<213> B.fragilis

<400> 1710

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<210> 1711

<211> 243

<212> DNA

<213> B.fragilis

<400> 1711

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<210> 1712

<211> 900

<212> DNA

<213> B.fragilis

<400> 1712

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<210> 1713

<211> 306

<212> DNA

<213> B.fragilis

<400> 1713

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<210> 1714

<211> 1914

<212> DNA

<213> B.fragilis

<400> 1714

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aatgcagtac	acgtttctgt	caatgagaag	ggatataaca	ttgaacagat	tattgatggt	1740
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ctggaaacat	gggtgacaaa	gtccgtttaa	gaaggaaaaa	tttcggtaga	agaaggtaaa	1860
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<210> 1715

<211> 1467

<212> DNA

<213> B.fragilis

<400> 1715

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gatgggcttt	atgatgtgct	tggttatgga	tatgatatta	caaaggagta	tttgaccctt	180
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aaacaagctg	catattcggg	atcaattgct	ggaggaacct	attttaaatc	agcgtattct	420
tattcatcta	aatattcatt	tgcaagtatt	gatgctgtaa	gaaagttgaa	gtatatcaga	480
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gataatacta	aaccggtcta	ttgtttacat	agtaataggg	ctaaaaatac	tttttttgta	1380
tttgataaag	gagaagcaga	tcgaattgtg	agagaattcg	gggatactta	taaagggctt	1440
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<210> 1716

<211> 1053

<212> DNA

<213> B.fragilis

<400> 1716

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gccgatgcgt	taatcatccg	tacacgcacc	cgttgtgatc	gttcactgct	tgccggaagc	180
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accatcggtg	ttgtaggtgt	gggaaatgta	ggaagcaaag	tagctgatgt	agcacgaaaa	420
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ttcgcttctt	taaaaagtat	agccgaaaaa	tgcatatta	tcactttcca	tgtaccttta	540
tataaggagg	ggaaatataa	aacgtatcat	ttggcggaca	agcatttctt	ccattcgcgtg	600
aaaaaaggag	cggtaatcat	gaacacttca	cgcggtgaag	tcatcgaaac	agaagcgctg	660
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ccggatatcg	accttgaact	gctggagaaa	gtaattatag	gtactcccca	catcgccgga	780
tattcagcgg	acgggaaagc	aaatgcaacc	cgaatgtcac	tcgaagcctt	atgccggttc	840
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actgcaactt	atgaagaggc	atcccttatg	atttacgac	ctcgagaga	cagtgatgcc	960
ctgaaatctc	acccggggct	cttcgaacaa	cttcggggag	actatccttt	aagaagagag	1020
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<210> 1717

<211> 624

<212> DNA

<213> B.fragilis

<400> 1717

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ggggactgca	atatggaaaa	agcatacacg	gttttcgcca	cccaagtgat	tgaactgtgt	120
atcggcagcc	cggacacgaa	ccggaccatc	atcgcatggg	cttacatcga	aatcgagtta	180
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tggacaggca	acgccatcga	cctcgtggag	ctgatatacg	gcacaaacga	gatgggctgt	420
atcaacaacg	gcaatatgcc	gtcacaacag	cttgccccac	ttctgtacaa	gatattcggt	480
gtggaatcaa	aggactgcta	ccgtttctac	atcgacatca	aacgccggaa	gaacgagagt	540
cgcacctatt	tccttgacaa	aatgcaggaa	aaactgaacg	agaagatgct	ccgtgacgaa	600
gagatggagc	gcattgagaag	atag				624

<210> 1718

<211> 792

<212> DNA

<213> B.fragilis

<400> 1718

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aaagtgcctg	tgcatggagg	cggacgttcg	gcaacgaaaa	tagccgcgca	actgggtata	180
gacagcaaaa	tggttaatgg	acgccgtatc	actgatgctg	agacattgaa	ggtgggtgact	240
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ggggttattc	agggaggaat	gataccgaag	cttgaaaatt	cttttgaggc	aattaatgca	720
ggtgtgtctg	aggttgtaat	taccttagca	tcagctattc	atacagatgg	gggaactcgg	780
ataaaaaaat	aa					792

<210> 1719

<211> 1518

<212> DNA

<213> B.fragilis

<400> 1719

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gatctttacg	atacacaagc	cggagaaata	caacaccggg	tattgactcg	tctgggtgaa	120
caagcagaaa	ataccgaatg	gggaaagaag	tacgattata	aatctatccg	caattacgaa	180
gacttttaaaa	atcgctcccc	catacaaacc	tacgaagaag	ttaaacctta	tgtagagcgt	240
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tcgggtacaa	caaacgataa	gagtaaattc	ctcccggtca	gcaaggaagc	cttggaggat	360
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cgtttctttt	ccggtaaagg	attaattctg	ggaggtagcc	acagcccga	cctcaactcc	480
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gaagctatcg	ccaacagtac	cataccggtg	gatgtgacca	acctttccgg	tgttccttcc	660
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gtatggccca	atctggaagt	atttttccac	ggcgggtgtg	cttttaccac	ctaccgcgaa	780
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<210> 1720

<211> 522

<212> DNA

<213> B.fragilis

<400> 1720

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gctcatttgc	tccgttaca	agaactgttt	gtttatcaga	ctgttcaaca	ggaggcgagg	180
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tataattatg	atgcttaca	ggacacatac	gacgatcccg	aagtggctta	caaacaagtt	420
tcttctgcgt	tgatgatggt	gtctgaaggt	ataaataaat	cgcaggatca	ggtcgtaaga	480
gacagtgtaa	aggtcgaacc	ggttcgtgtg	atgaaggaat	aa		522

<210> 1721

<211> 411

<212> DNA

<213> B.fragilis

<400> 1721

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ggagaaatcg	ccggactgtt	ccacacgggt	gtcccgcacag	tgaacgccgc	catcaaagcc	180
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acctactgca	cgcacgtgtt	ccgcacgtgg	ctgggtgggt	aagctctctc	gaaagaaaag	360
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<210> 1722

<211> 1800

<212> DNA

<213> B.fragilis

<400> 1722

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gctgcgcgta	tggcaaaact	tttacaagag	aataatctat	cgagacatca	aggaattgca	180

gccatatctt	ttaccaacac	cgcattgtgag	gttatatacaa	aagaacttaa	agagacattc	240
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tacatatctt	tgccttatgc	tcattttagtc	atgggatgca	attatcgtcc	tgaaatagta	360
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<210> 1723

<211> 1470

<212> DNA

<213> B.fragilis

<400> 1723

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<210> 1724
 <211> 1032
 <212> DNA
 <213> B.fragilis

<400> 1724
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 aagttgaaaa gtacattggc tcaattacag tatcggtcgg ataaagacta tatcgaagag 180
 aggggtgaatt attataataa gctgtcttct ccttcttctt tgccggaaaa gtcttttata 240
 aagaatgaat ttcggtattt gatcttttta ggaactcttg cggacaataa aaaatctctt 300
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<210> 1725
 <211> 1977
 <212> DNA
 <213> B.fragilis

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<210> 1726

<211> 2112

<212> DNA

<213> B. fragilis

<400> 1726

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<210> 1727

<211> 750

<212> DNA

<213> B. fragilis

<400> 1727

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attgataaaa	tgttggcgga	aaaaatggat	gatctgactt	gtgaggcatg	cgaactgaat	180

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gcttattatg	cctgtaaagc	cggaagccg	gaaattgctg	ccgatatgtg	tgacagggct	360
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acccaattgg	caagcttgta	tgacacacgt	aacggaaata	acggatatca	ggaacgatta	720
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<210> 1728

<211> 702

<212> DNA

<213> B.fragilis

<400> 1728

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gtagtggcta	ttggaaatcc	cattcataat	gatagaataa	agaaattata	cttggatatt	540
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gaaacattat	ttgattttgg	gaaaatttct	tttaaaagaat	cacaaaagtg	tatttttatg	660
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<210> 1729

<211> 1800

<212> DNA

<213> B.fragilis

<400> 1729

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<210> 1730

<211> 630

<212> DNA

<213> B.fragilis

<400> 1730

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tcgtcccgtt	cggacgacaa	tcccaacggt	ttcaccatcg	agggattcac	catcatcgag	600
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<210> 1731

<211> 1839

<212> DNA

<213> B.fragilis

<400> 1731

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<210> 1732

<211> 408

<212> DNA

<213> B.fragilis

<400> 1732

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tattttccc	ttccccaca	gacggtatgg	accgacattg	taggcgagcg	tggcaaggag	360
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<210> 1733

<211> 360

<212> DNA

<213> B.fragilis

<400> 1733

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atcctggaca	gttatgaaaa	tcataaggac	cagataaatg	aagatgatat	tttatggaaa	300
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<210> 1734

<211> 1425

<212> DNA

<213> B.fragilis

<400> 1734

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gtcggagtta	ttgatgatgc	tctccttgac	cacgggacgag	gaaatgatgt	cgtccacctc	180
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gctgcctaca	tcgttcttta	tatgcttcag	tctctccgcg	tcctcgctcc	acgccatgac	1320
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<210> 1735

<211> 354

<212> DNA

<213> B.fragilis

<400> 1735

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cgcaccttgc	aacgttaccg	cagcatcggc	gcgttgccgt	ataagacgct	cggcaaaaag	240
acctattaca	gcgaggagga	cgtgctgacg	tctctttccg	gacacgtaaa	ggacttcaaa	300
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<210> 1736

<211> 1230

<212> DNA

<213> B.fragilis

<400> 1736

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cttcaagaga	agattacagc	acgaatcgcg	cctaataaag	cagtattgat	ttttggtgct	180
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gacttgatcg	aagagtgtgc	agacagtttg	acggctttgg	agttcaaatg	gggaaacaag	1140
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<210> 1737

<211> 891

<212> DNA

<213> B.fragilis

<400> 1737

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gcgcatacc	gcaatgagcg	cacgccctct	ttccgtgtga	acgtggcaaa	acagctttgg	180
tacgacttcg	gaacgggcaa	gggcggtgac	atcttcacgc	ttgccgggga	gtttatcgga	240
agcaacgact	tcattggaaca	agtgaagttc	atagcggaaa	ccgccaatat	gcctatgcct	300
gttcccgaag	tgagtaaacc	gactttcctg	cctaaaccat	cagaacctgc	ctttgaagga	360
gtggaagccg	tccctctgct	tcgttctcca	ctgacggact	atctggcgga	acggggcatt	420
tcttacgaca	tagcatcccc	gtattgctgc	cgactgaatt	atggagtgcg	tggaagcgg	480

tatttcgccc	tcggtttccc	gaacgtgacg	ggtggatatg	agatccgcag	ccgcttcttc	540
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gtgtgtagcg	tatttgaagg	attcatggac	ttcctttccg	ctgccacgct	cggattggaa	660
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<210> 1738

<211> 534

<212> DNA

<213> B.fragilis

<400> 1738

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ccccttttgt	ttattgccga	atthttgccgc	agaaaccaa	agaaaggact	gaatatgaaa	180
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gagcatcgca	tccgctatgt	ggtgctgcgc	ggcaagtgcc	gttaccgcca	gtcagaaatc	420
gaccgcctgc	ttgcccgaactg	caccatagtt	gaggatgcgg	caacacctac	ggaactgaaa	480
cgcaaccata	cgctgcgcac	gggcggcagc	aaacccaaag	gaaggaggac	gtga	534

<210> 1739

<211> 801

<212> DNA

<213> B.fragilis

<400> 1739

agatgtcacc	gcccttgccc	gttccgaagt	cgtaccaaag	ctgtttttgcc	acgttcacac	60
ggaaagaggg	cgtgcgctca	ttgcgggtatg	gcgcacgata	ccacaactcg	ttgccgcttc	120
ttcggacagg	ctcatgtcct	aaccgtgcga	ggaagtccgc	aaggggtatc	tgctcatgg	180
cgctcgatttc	cgctccgttcc	atgcagtgcg	ttagttaatg	ataaacttga	tgcccacgcc	240
ccactgcgta	tgaactttcc	tcgtgtcgcc	acccacaggg	caacgctccc	ggagattggc	300
aagcagggcg	atacggtcag	ccacgtaaaa	ctccacatcg	agcgtcagcg	caccgccgta	360
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caccgattca	tatccggcaa	gagccgaagc	acctgcatag	acgaatacga	ttttacgggg	480
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cccgtccttg	taagggttgt	tcttcaacag	gtattcgccg	ccaaacatcc	atttgttccc	600
ctttttcgtg	taggtggaaa	gagccgcccc	gaaactgtac	ccgccgtcgt	tgccgccggg	660
attgaagccg	tccgccatgt	tcgccctgac	ctcgatgcc	tgcattcttcg	gcaggcatcg	720
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<210> 1740

<211> 207

<212> DNA

<213> B.fragilis

<400> 1740

agaccgtgcc	ggattttttg	ctttttggtc	gcgatttttg	ccaatactat	tcatgtgcgc	60
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ggaaaccgat	ttcttccgcc	ggataaacga	agccggggac	tgcaatatgg	aaaaagcata	180
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<210> 1741

<211> 2424

<212> DNA

<213> B.fragilis

<400> 1741

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ctcccaatag	cgtacgcaca	ccatcgccaa	cgtgggcgtc	tgcaccgcgc	cgacggaata	180
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<211> 225

<212> DNA

<213> B.fragilis

<400> 1742

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aaaagaaaac	ttaccaccaa	attcgaagaa	gaaccccaaa	aaatcatttc	gatcttccat	180
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<210> 1743

<211> 1962

<212> DNA

<213> B.fragilis

<400> 1743

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<210> 1744

<211> 543

<212> DNA

<213> B.fragilis

<400> 1744

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<210> 1745

<211> 300

<212> DNA

<213> B.fragilis

<400> 1745

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cagaatgttg	aagcattggc	tgaaggtag	gaatatacac	atatttcttg	tatagggtga	240
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<210> 1746

<211> 597

<212> DNA

<213> B.fragilis

<400> 1746

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ggatactact	tcaagatact	ctccgatgcc	cgtaaaaatcg	tattcgtcta	tgcagggtgct	360
tcggctcttg	ccggatatga	atcgggtgaac	tggggcgaaa	aggtactgca	tgacgggtcc	420
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tacgtggctg	accgtatcgc	cctgcttgcc	aatctccggg	agcgttgcc	gtgggggtggc	540
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<210> 1747

<211> 819

<212> DNA

<213> B.fragilis

<400> 1747

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ttacgtgctt	ttgatttcca	ttctctgaac	ccggagaaga	actggtttga	tgtgaccatt	660
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caccgtccgc	atagtagccg	tccgtggaaa	cagttgaaat	ataactaatcc	gcttaaatat	780
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<210> 1748

<211> 351

<212> DNA

<213> B.fragilis

<400> 1748

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aaggactatg	acgggctttt	catccgtgaa	cccgaagtaa	aggcacgcga	ggggaagatg	180
gcatacgtgc	gcccgagta	ccacgaccgc	atcatgcgca	tcacccgcgt	tatcgggcgt	240
gacaggcttt	cgctgtccgc	ctacatcgac	catgtgctta	cgcaccactt	caaccagtgc	300
gaagaggcga	taaagagcct	ttacgccagg	aattacgatg	cagtattcta	a	351

<210> 1749

<211> 1884
 <212> DNA
 <213> B.fragilis

<400> 1749

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agtgaaaatt	tgaattacaa	gtttgaacgc	ttgtaccgta	tctttttcaa	tgaggaaatg	180
tattacgttg	cctaccaacg	catatatgcy	aaaccgggca	atatgacagc	aggtgcagat	240
gggaaaacca	ttgaccaa	gagcctgaac	cgaattgaac	aactgataac	atcgttgaaa	300
gatgagagtt	atcagcccca	accctcaaaa	cggatgtata	tcccaaagaa	aaatgggaaa	360
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tcgcaaaaac	aatgatggc	tcgcaaacga	aagactattg	ccatatgtgg	taagtgttac	1860
aaaaaactca	gtaacaatga	atag				1884

<210> 1750
 <211> 483
 <212> DNA
 <213> B.fragilis

<400> 1750

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gggaccctgt	accgcgcaca	ggagccgccc	gtacctgcc	ccgaagaaga	gagcgtccc	180
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acacgccagt	gcgtctatat	cagccgcgac	gtacacagca	agattcttaa	aatcgtgaac	360
gacatcgccg	gacgggaaat	ctcggtaggc	ggctacgtgg	acaccgtgct	gcgccaacat	420
ctggaacagc	acaaggagaa	aataaacgaa	ctgtacaaga	accaacgtga	agacttaata	480
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<210> 1751
 <211> 1320
 <212> DNA
 <213> B.fragilis

<400> 1751

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gtgtccgtcg	gtgagcaggt	ctttgatctc	gtcatcggtg	agggtacggt	ttgccttcag	180
gcggaacacg	ggcagcccgc	actccgcgtt	gtcgcagcgg	acgaccttgc	cgtaaaactg	240
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catggcaacg	tcggcgatgc	gcatcgtctt	cacgaccgag	tagagggcaa	gccccctt	480
ggtagggtaca	agcgacttct	tgcagcgttc	catgtatccc	cgtttgaaaa	gcgtttcgat	540
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gagcagggcg	tgggtggtccg	ttaccttgcc	accgtccacg	ctgcggcggt	taggcattgg	1020
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ggcgttggct	tccttttgga	gcgtggtcag	gtcgtacaga	agcggagtg	cctccgtctt	1260
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<210> 1752

<211> 540

<212> DNA

<213> B.fragilis

<400> 1752

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gaaatacgag	aagttccaaa	cgggtatcgg	cagacgcaag	cggacacttg	tgcaatacga	180
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aaccgcacgg	gacaagtggc	tgacggcaaa	aagaggaaa	gaggacaagc	gatgaacgaa	300
tcaggctacc	aaacgctgat	agtcaagttc	agcaagccca	tcacggaatt	ggacggcatc	360
tttgacgatg	ccgaagcgtg	gggagttgaa	acccttaaa	gatgggtaga	ggactatgag	420
agcagtcggt	ttaccgccat	tgacacccac	acggcagtc	taacgagcga	gtacaatatg	480
gagtgtgtga	aaacatgggt	ggaaaggaac	acccccatag	ccgagaaaa	agaattttga	540

<210> 1753

<211> 459

<212> DNA

<213> B.fragilis

<400> 1753

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aaggaacacc	cccatagccg	agaaaacaga	attttgaaca	ttcgggcggg	gtccgcaccg	120
cccgaacata	gcacccaaag	aagaatgaat	atgatagcaa	agacaatttt	ggagcagata	180
ggtggcagac	gctttgccgc	catgacggga	agcaaagact	tcatagacat	gggcaacggc	240
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gcaggggcag	acctctacaa	tatgcgcttc	taccgcagga	cgttcagcaa	aaagacattc	360
gagtgaaga	cgaaagacat	cgaaacgcac	gagaggatat	attgtgatat	gctggaagaa	420
atgttcacga	tggtaacggg	actttacacc	cgtttttga			459

<210> 1754

<211> 1293

<212> DNA

<213> B.fragilis

<400> 1754

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ctaccgagat	tgaccgccac	gcaaaaggca	tacgctttcc	gtcattgctt	caagcattac	120
gcaatcaaga	gggcggacgg	cacgaatatc	tgtaccgagt	gcggacattc	gtggaagagc	180
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accagcaagc	agtaccaagt	gatacgcttc	ttcttcgtca	agtcccgata	caaggcaggg	360
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gtatgcaatt	ccaataccga	gtaccacgac	cgcattcatc	ggcttgtgga	ggacaatgcc	1260
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<210> 1755

<211> 282

<212> DNA

<213> B.fragilis

<400> 1755

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gacgataaaa	tccccacgat	gttccttgaa	tttatgaacc	tcctcacttt	ttgtcagagt	120
gaggagcagt	taagggcggg	tgtaaaagac	ttttccgaga	agcacgaact	tgacaagttc	180
ttccttttacg	gcttcgggtc	acaccatttc	tacctgcacc	aacgctatac	gagtaacccc	240
gaaatggtga	tgcagaacag	agttttgtca	gtacattttc	aa		282

<210> 1756

<211> 699

<212> DNA

<213> B.fragilis

<400> 1756

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ggactgagaa	tgttcctgtc	aaatacgttc	gaccttgtca	tttcggacat	tgtgctcccc	180
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ctgatgctca	ccgcattggg	cagtacggac	gacaaactgg	atgggtttga	tgccggagcg	300
gatgattaca	tggtgaaacc	cttcgacttc	agggagctgt	atgcccgat	ccgagttctt	360
ctgaaacgaa	aacttgcatg	agtgaactgt	gtggaggaag	agttaaatta	tgcagactta	420
tccgtaaacc	tggtggacaa	gagcgtaaag	agggcgggac	gggacattaa	gctctctccc	480
aaagaatata	acctgctggt	atatatgatc	gagaatgcag	agaaagttgt	cagccggatg	540
gatatagccg	acaaagtgtg	gaacacgcac	tttgacacgg	gtacgaactt	cattgatgtc	600
tatatcaact	atctccgtaa	gaaaatagac	cgtgacttcg	atactaaact	catacacaca	660
aagacaggca	tgggatttat	tctcaccgat	aagttatga			699

<210> 1757

<211> 1104

<212> DNA

<213> B.fragilis

<400> 1757

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cgtttttatg	agttcaacgg	ttctactgaa	tatttggagg	atgcccgtgc	gtagactgct	180
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<210> 1758

<211> 573

<212> DNA

<213> B.fragilis

<400> 1758

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<210> 1759

<211> 1278

<212> DNA

<213> B.fragilis

<400> 1759

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<210> 1760

<211> 270

<212> DNA

<213> B.fragilis

<400> 1760

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tctaaagaac	ctgtcaaacc	tggggagtc	ttaagaataa	ctgtgatcta	taaagcggat	180
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caattgaaaa	taactggaaa	tgctgaataa				270

<210> 1761

<211> 936

<212> DNA

<213> B.fragilis

<400> 1761

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ttatgttttt	tgttatctat	tataaataaa	tatagagtgt	atatacatcg	tattaataaa	840
cgaaaaacta	atgataaatt	gatattttaag	aagtatgtaa	gaaaaggatg	ttgggacgga	900
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<210> 1762

<211> 192

<212> DNA

<213> B.fragilis

<400> 1762

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caaagaggct	ga					192

<210> 1763

<211> 489

<212> DNA

<213> B.fragilis

<400> 1763

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gataaggagg	tgctggatat	gatctcta	ctcaaaagca	tgcagggtgct	tacttctgat	240
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tttgaatcgt	ttctttcttt	taaggacaaa	tctgagaatt	gtcagattat	ggttcgttaag	360
aaaaaaagta	cgattgttga	actgggtgatg	ttgatgcacg	aaaagaatca	ctttgctgtg	420
gtaaaacttta	cggggaatat	gagtcgagg	tttattgcac	aaataaaaag	acattttcat	480
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<210> 1764

<211> 1371

<212> DNA

<213> B.fragilis

<400> 1764

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<210> 1765

<211> 2664

<212> DNA

<213> B.fragilis

<400> 1765

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<210> 1766

<211> 189

<212> DNA

<213> B.fragilis

<400> 1766

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<210> 1767

<211> 195

<212> DNA

<213> B.fragilis

<400> 1767

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tcattttaaag	aaataaattg	tattataatc	gagagaaatg	catatctttg	caacgagaga	180
gatacaagca	agtaa					195

<210> 1768

<211> 1317
 <212> DNA
 <213> B.fragilis

<400> 1768

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<210> 1769
 <211> 381
 <212> DNA
 <213> B.fragilis

<400> 1769

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gccgcaaccg	cctccgcatt	tgcgcaggga	aacggtctgg	cagggtatcaa	cgaagccacc	180
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ctgcgctcat	tcttccttta	a				381

<210> 1770
 <211> 249
 <212> DNA
 <213> B.fragilis

<400> 1770

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<210> 1771
 <211> 1056
 <212> DNA
 <213> B.fragilis

<400> 1771

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<210> 1772

<211> 1176

<212> DNA

<213> B.fragilis

<400> 1772

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<210> 1773

<211> 624

<212> DNA

<213> B.fragilis

<400> 1773

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<210> 1774

<211> 243

<212> DNA

<213> B.fragilis

<400> 1774

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<210> 1775

<211> 336

<212> DNA

<213> B.fragilis

<400> 1775

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<210> 1776

<211> 206

<212> DNA

<213> B.fragilis

<400> 1776

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<210> 1777

<211> 654

<212> DNA

<213> B.fragilis

<400> 1777

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atctttgacg	acatgaacaa	cggattcggt	ttgatacaca	tccccaagtc	attcatggcg	420
gagaatactg	tctttcttct	gcttactgca	ttgatacaca	atctctacaa	gaccatcatg	480
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<210> 1778
 <211> 1797
 <212> DNA
 <213> B.fragilis

<400> 1778

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<210> 1779
 <211> 291
 <212> DNA
 <213> B.fragilis

<400> 1779

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<210> 1780
 <211> 414
 <212> DNA
 <213> B.fragilis

<400> 1780

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atcaaaagta	accagaaaga	gatcagtcag	gttctgaacc	aattgtttgc	cggaacgaat	360
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<210> 1781

<211> 1221

<212> DNA

<213> B.fragilis

<400> 1781

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<210> 1782

<211> 282

<212> DNA

<213> B.fragilis

<400> 1782

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gtcagatata	gtatgtact	gccaaatgta	cgtaaagata	aggagatctg	caacgaaact	240
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<210> 1783

<211> 639

<212> DNA

<213> B.fragilis

<400> 1783

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<210> 1784

<211> 200

<212> DNA

<213> B.fragilis

<400> 1784

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aatcagttta	cagcccaatc	ttcattgaaa	acagcaagtg	gtaaactcta	tttcggcgga	180
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<210> 1785

<211> 390

<212> DNA

<213> B.fragilis

<400> 1785

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<210> 1786

<211> 234

<212> DNA

<213> B.fragilis

<400> 1786

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<210> 1787

<211> 348

<212> DNA

<213> B.fragilis

<400> 1787

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<210> 1788

<211> 252

<212> DNA

<213> B.fragilis

<400> 1788

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ctgagaaact	cacacctttt	ggaggaatth	tttcaatcat	ggagaaatth	gactccatgc	180
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<210> 1789

<211> 2178

<212> DNA

<213> B.fragilis

<400> 1789

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<210> 1790

<211> 342

<212> DNA

<213> B.fragilis

<400> 1790

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gacacccata	agaaaatctt	cgctcttctg	gaatcccaga	acaatccggt	aaaacgcttc	240
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<210> 1791

<211> 1887

<212> DNA

<213> B.fragilis

<400> 1791

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<210> 1792

<211> 1068

<212> DNA

<213> B.fragilis

<400> 1792

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<210> 1793

<211> 1038

<212> DNA

<213> B.fragilis

<400> 1793

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gccggaggag	tggggctggg	aactcccgga	cgctcttttt	tccataatga	tacattctat	960
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<210> 1794

<211> 714

<212> DNA

<213> B.fragilis

<400> 1794

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gtcactcccc	atcggatcga	gttctggcaa	ggtagggcaa	accggcttca	cgatcgcttt	660
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<210> 1795

<211> 1221

<212> DNA

<213> B.fragilis

<400> 1795

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gacagttgtc	tgctggccag	aatcttgaga	gtacgggttt	ctggggatac	tacttatata	300
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aactaccttc	gttctatcgg	gcgagtagga	cagggctccg	gtgaatattc	acaggtttat	420
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<210> 1796

<211> 648

<212> DNA

<213> B.fragilis

<400> 1796

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tgtaggataa	ttcaatcaga	tataggagca	tattcttatg	ttggttatgg	ctctattctc	180
gtaaatgtag	ctgttgggaa	atthtgttct	atcgaggag	atgttgaaat	aggtttagca	240
actcatcgca	tggatgctat	ttctacttct	cctttgtttt	attcttctaa	taatgctttg	300
gggatatctt	ggacctcata	ttcttattht	gatgattctc	acaagccagt	tagtataggg	360
catgatgtgt	ggatttggtac	gagagtggta	attatgggag	gggtgaagat	tggatgatga	420
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<210> 1797

<211> 738

<212> DNA

<213> B.fragilis

<400> 1797

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gaaagctttg	atatataa					738

<210> 1798
 <211> 1092
 <212> DNA
 <213> B.fragilis

<400> 1798
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<210> 1799
 <211> 549
 <212> DNA
 <213> B.fragilis

<400> 1799
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 cttttcgtaa ggcaactcaa agcgggaaat tataatacca agagtccgaa gggctttgta 180
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 ggttgcaaaa tggtagagc caatgccgag aactatgaag gtatctatct cctgactgat 420
 gaagagttgc tcgatgctgc tgcccgatac cgctcgctgg gggaaaacag gcagtatcct 480
 cgtacggcat ggaccatcga cgcattgctt gacgagccc tttgcggaag cggataccgt 540
 tgggtggtaa 549

<210> 1800
 <211> 183
 <212> DNA
 <213> B.fragilis

<400> 1800
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 aagcaagcaa aaaggacaat tatcaacttg gagataaaga atttaccacc aaatttgatt 180
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<210> 1801
 <211> 474
 <212> DNA
 <213> B.fragilis

<400> 1801

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aagatatcca	tgtcaaaaat	gactttttcg	caccagatga	tccgcctgat	ctttgtagaa	420
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<210> 1802

<211> 2886

<212> DNA

<213> B.fragilis

<400> 1802

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<210> 1803

<211> 597

<212> DNA

<213> B.fragilis

<400> 1803

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<210> 1804

<211> 588

<212> DNA

<213> B.fragilis

<400> 1804

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<210> 1805

<211> 486

<212> DNA

<213> B.fragilis

<400> 1805

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ctattgaaat	gccaatgtct	gacttattgc	tatggcgagg	tattcgagga	ggatttagca	360
caagaagcac	atcaaataat	ggatagctgg	aaaaataggg	cactttcaga	agaagaattg	420
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<210> 1806

<211> 183
 <212> DNA
 <213> B.fragilis

<400> 1806
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 taa 183

<210> 1807
 <211> 339
 <212> DNA
 <213> B.fragilis

<400> 1807
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 ggttttaccca aaaccgggttc ggagcgcata ggggtaaaaat cctgtttcac cacgtctcca 180
 tccagatgtg ttgtatttcc gctgacaacc gccacttggg taaaagcttc ttctatctcc 240
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 gctgctgccg ctacacgaaa gaaaactact ttccggtga 339

<210> 1808
 <211> 519
 <212> DNA
 <213> B.fragilis

<400> 1808
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 cgtcaactga aatatcgctg tcgtagggta gaagttcctg ttatcaagaa tcttattttt 180
 gtccggacca cgaaagaccg tgcctgggtct atcacgaagg atgatcatgt tcctctttat 240
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 gttggtacaa aagtgcaggt cgtcaaagga gagttttgtg gcattgaggg cgaattgtcc 420
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<210> 1809
 <211> 1305
 <212> DNA
 <213> B.fragilis

<400> 1809
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 gattcattat tacaagatgc aataactaat aatcatttta tgtgctctaa tgagttgagt 240
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 cgtccagatt taagacctct tttaagtgca agtgaaactg ttggcaagggt tatatcaaaa 360
 ggagatattg ttgtttatga gtcaactgta taccctggag taacagaaga agagtgtatt 420
 ccacttatag aaaaggtttc tgggctcaag tttaatgagg atttttttgc aggttattct 480
 ccggagcgta taaatcctgg ggataaagaa catactgtcg aaaaaattat aaaagttaca 540
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 aatggctact ataaagcacc ttctataaag gttgctgaag cttctaagat tattgagaat 660
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 agaccaggat tagttggggg acattgtatt agtgtagacc cttattattt gattcaaaaa 840

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tgttttaaaa	atatacaagt	taatgatcct	ttaaaaaagg	aatatgggg	cgtatacgat	1260
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<210> 1810

<211> 1029

<212> DNA

<213> B.fragilis

<400> 1810

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catctgaacc	gacacaacgt	attgctgaca	caggagtg	atgccgtctg	catctttgtc	180
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tactgcacg	gactgttagg	cttcgatatg	catggaaaga	cagccgggat	catcgggtacg	480
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gtaacctccc	atcaggcttt	ctttaccctg	gaagcgtgg	ccaacatcgc	agcaacgact	960
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aatgcctaa						1029

<210> 1811

<211> 315

<212> DNA

<213> B.fragilis

<400> 1811

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cataatatag	aaaataaaaa	agaagcagct	acaatcgaat	acttcccata	tttaaacatt	180
ataagcgcta	caaagtctat	aaaagcacct	ccttccttgg	gattagaaaa	taaaccattc	240
ctatatatta	aattattaat	gccaatagca	tcttctgaca	actttacaac	atatttttaa	300
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<210> 1812

<211> 993

<212> DNA

<213> B.fragilis

<400> 1812

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tggaagcttg	cttcggctgt	cagtaatgcc	ggtgggtctg	gactgatagg	ctccggttcg	180
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ttcggggtaa	atattccgtt	gatgtacca	cagatagagg	aaatcatgaa	catcgtgggtg	300
gaggaaggag	tcaaaatcgt	atttacctcc	gccggaaatc	cgaaaacgtg	gaccggatgg	360

ttgaaagagc	gcggcatcac	agtggcacat	gtcgtttctt	cctccaaatt	tgccatgaaa	420
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<210> 1813

<211> 663

<212> DNA

<213> B.fragilis

<400> 1813

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aagcatgcac	acgaagtggg	gttggcccg	ggaatagccg	aaagggcagg	agtgggaattt	180
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aagtgcgtga	atgtcacctt	gaacctggcg	atggatgaac	agttcgatc	tcacactccg	480
ttgatgtgga	tcgataaagc	cgaaacctgg	gcgctggcg	acgaactcgg	tgtgttcgat	540
cttgtgcgga	acgagacact	gacctgttac	aacgggattc	ccgccgacgg	atgcggacat	600
tgtccggcat	gtaagttacg	caagcagggg	ctggaagagt	atttaagtaa	aagaaaccgt	660
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<210> 1814

<211> 1161

<212> DNA

<213> B.fragilis

<400> 1814

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aatacaata	cgcaatatat	tattgtttta	ttttctttt	attatttatt	ttctattttg	180
tgtttagagg	gagtatatcc	agaccaatta	ataatattgc	tatatgcaat	attattatct	240
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ataatgaaaa	taactttatt	ggtacttttt	gtgtcaatgg	ggatctctag	atttggaatt	1080
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<210> 1815

<211> 1056
 <212> DNA
 <213> B.fragilis

<400> 1815

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ttctgcattg	atcaaaaagt	tgctttttta	aaaatagcat	cttgtgatat	aacaaatttg	420
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<210> 1816
 <211> 1167
 <212> DNA
 <213> B.fragilis

<400> 1816

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gaaactcaag	agggatgtag	agtgtataga	gtggattata	aacgttcatt	ttattttttt	240
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<210> 1817
 <211> 1329
 <212> DNA
 <213> B.fragilis

<400> 1817

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cgatgttggt	tatatgacaa	ttttgttttt	gatataattaa	ggtataagcc	taagatgctt	180
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<210> 1818

<211> 603

<212> DNA

<213> B. fragilis

<400> 1818

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taa						603

<210> 1819

<211> 1296

<212> DNA

<213> B. fragilis

<400> 1819

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<210> 1820

<211> 1032

<212> DNA

<213> B.fragilis

<400> 1820

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aaaattatta	acaagagacc	tgtcaccttt	caatatgggt	caaatacaacg	ctcaattatc	240
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gcaggggaaa	aatggaatgt	taatattgag	tacgtaaaag	aaaataaaaag	attgggtact	600
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gacttaccta	tgctatttaa	agaccttaaa	gaaaagagta	tgttgataaa	ggggtatatg	960
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<210> 1821

<211> 846

<212> DNA

<213> B.fragilis

<400> 1821

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gcgggttata	aatattttaat	tctatgtgat	gtagatgact	ttttttcaag	aaaaaggggtg	300
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<210> 1822

<211> 717

<212> DNA
<213> B.fragilis

<400> 1822

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aaagtaacag	atgttttcatt	gggtaagtca	ttcattggta	gagatgtgat	gatatctgat	180
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tctataaatg	gacctggaac	aagaatttgc	gctttcattc	atgagataaa	tataggggca	300
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gatgatgaaa	ctattttctta	tattgaaaag	actcgatggg	ggacgtgggc	tatagaggag	660
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<210> 1823

<211> 1944

<212> DNA

<213> B.fragilis

<400> 1823

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caccggaagt	acattgtcta	ccgctttgcc	ggtagatgca	ttgatcacia	taatcccttt	420
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tcgggtgccc	atgaaatagt	accgaaagtg	tatcgctaca	tgatgaagca	ccgcatgctg	1860
ccttatatca	tcaatccctt	taagagttat	aatgattata	atcccggcat	caatgatgcc	1920
gacaatcccc	acatagagct	atga				1944

<210> 1824

<211> 459

<212> DNA

<213> B.fragilis

<400> 1824

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gtacgtttca	actgtccgga	gtttaccagc	ctatgcccc	taaccggaca	gccggatttt	180
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cctcgtggcg	gcatttcgat	ttatccgtat	gccaattacg	gtcgtccggg	gacgaaatac	420
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<210> 1825

<211> 504

<212> DNA

<213> B.fragilis

<400> 1825

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gctataaaaa	atggcccaaa	atctcacatt	ggaagacatt	tgatgacctc	atcttctttca	180
atgaagggcc	taacggagtt	gactaatgtt	gtgggaaatt	ggagcgataa	gcgtgcttct	240
gccgtggcca	ggacaacgta	tactcatcag	ataacagcaa	tacctgatca	ctacttcgca	300
ctagtttctc	ggtactatgc	atatgatcca	atatcaaagg	aaatgatagc	attgaaggat	360
gagactaatc	caattgagga	gtggcagcat	atagaacagc	taaagggtag	tgctgaagga	420
agcatacgat	accccgcatg	gaatgggata	atatcacagg	aggtactaga	ctacctttca	480
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<210> 1826

<211> 504

<212> DNA

<213> B.fragilis

<400> 1826

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gctataaaaa	atggcccaaa	atctcacatt	ggaagacatt	tgatgacctc	atcttctttca	180
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gccgtggcca	ggacaacgta	tactcatcag	ataacagcaa	tacctgatca	ctacttcgca	300
ctagtttctc	ggtactatgc	atatgatcca	atatcaaagg	aaatgatagc	attgaaggat	360
gagactaatc	caattgagga	gtggcagcat	atagaacagc	taaagggtag	tgctgaagga	420
agcatacgat	accccgcatg	gaatgggata	atatcacagg	aggtactaga	ctacctttca	480
tcctacataa	atagacgcat	ataa				504

<210> 1827

<211> 1302

<212> DNA

<213> B.fragilis

<400> 1827

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tggaactcag	gagctattat	gatgttgctg	tggctgggag	tgaaggaggg	cgatgaagtg	300
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ccggtaatgg	tggaattccg	aactgatttt	aatatttcgg	tggaaggctg	tcgtaaagct	420
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gaaagaatca	tggcactggt	gcaggaacca	gaaatggtaa	aactgttccg	ttcgggaatct	540
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gcacgttaca	gtaaccgtca	gcgtaccggt	tgtgaaactg	atgtggctat	cttttactt	660
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<210> 1828

<211> 1446

<212> DNA

<213> B.fragilis

<400> 1828

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tctaggaggt	tgtctacaga	agaatatggt	ataatacaat	tatctactgg	aattggcctg	180
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tgtagaaccc	acaaagcaaa	gaaagagtta	atatctactg	tatattgggt	tgttgttatt	300
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<210> 1829

<211> 741

<212> DNA

<213> B.fragilis

<400> 1829

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ttttgttgca	aacctaaaaa	aaacatcatg	aaaaagattt	tatttattct	atttacagtt	180
cagttttatt	tgatccctcg	gataacagga	agttatgggt	caaattctat	cggaaataat	240
catggacatt	cggtaactaa	tcaaggaaag	aaaaccatca	agaaagacat	ctttggagat	300
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<210> 1830
 <211> 711
 <212> DNA
 <213> B.fragilis

<400> 1830							
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aaagaagaaa	atgtaattat	tgatagattt	attgttttac	aaccaacttc	tcctttgaga		360
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acagacaatt	cttttgctta	tgctatgcct	agagatagat	ccgtagatat	tgattttttg		660
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<210> 1831
 <211> 189
 <212> DNA
 <213> B.fragilis

<400> 1831							
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<210> 1832
 <211> 819
 <212> DNA
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<400> 1832						
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gaagtgtttg	gtacgctcta	tgtaatcggt	gattgcagtg	atataatgct	gctctacagt	300
ccgtcctacg	acgataagg	ttgttttcat	tcaagtgcaa	actcttggtt	attgcacaaa	360
aataagaaaa	aatattgtt	tttagcatta	aatacttacc	tttgcgatc	gataataactt	420
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gtagacaggc	aggcagctga	aggaacactt	gccgcctttt	tcagtagcaa	taaggctcagt	660
ggttttaattg	taaaccatga	aggtaagcgg	gatgaatcga	gttttattat	cggtaacctg	720
accactgcca	acggcaattt	ccggataaac	tgcttcttcc	gcagagtaca	gaacaaatat	780
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<210> 1833
 <211> 519
 <212> DNA
 <213> B.fragilis

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 caggattgtc tgttgaaggc attggacaac aaagagaaat ttgtgcatac ccagaatttc 180
 aagggatgga tgtacacat catgcgaat atctttatca ataattaccg taagtatttg 240
 cgcgaagtag acatgaccca ctctacttat aatctctatg cgcaaaccat gacggaaggc 300
 gaggagggga accggtttga gacgatctac gacctgaagg agctctacaa agtgcataat 360
 gccgttcccg aagacctgaa gaagcctttt atgatgttcg tggccgggtt caagtatcgt 420
 gagatagccg agaagatgga tttaccggta gggactatca agagccgtct gttcctgatc 480
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<210> 1834
 <211> 1059
 <212> DNA
 <213> B.fragilis

<400> 1834
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 gaagaacctt cggataaggg cagtacttct cccaagagc cggtttacac cacctttaca 180
 gatgccggcg aagtgggtgt tcccgagtg ctcccgcca atttactcc ccggtccgta 240
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 gtgcccgaag gagtcggata tgactatcag gcccgatcc atggtatggc agagtatgac 720
 gggcgatgt atctgaccga ctggtacaac aagagtgtgc aagtgttcac tccgtcgaaa 780
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 agtgggaaaa tacagcgta tgatccggag acaggagacc tgctcggagt gctggccgag 960
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<210> 1835
 <211> 852
 <212> DNA
 <213> B.fragilis

<400> 1835
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 aataccaaat ataattggga tctattttat caaaagaaga ttccgggtaga tgccgatata 480
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 gtatatgata aaggtatacg cagttcatat gaagagatac gttccagtgg attgaggcat 600
 aatctgtttg gcgaacgtgc caatggaatg atggtgccta cgcagagcat ggtacatacc 660
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<210> 1836

<211> 645

<212> DNA

<213> B.fragilis

<400> 1836

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aatgtagggc	attccatctt	aggctatcct	gttctcggtg	ctgatgacga	tattccctta	180
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gattgcaaag	tgggtgattg	ttctttttta	ggtagccagt	cggtaatggt	gaatggtaca	540
tccatcattt	ccggttggtat	catcggcgcg	ggttcggtag	tacgtaagga	tattttggaa	600
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<210> 1837

<211> 207

<212> DNA

<213> B.fragilis

<400> 1837

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acctatataa	agggaactca	cggttcggga	gctgccaaaga	tgaaagctga	gatccggaga	180
aagagggcga	acagacataa	acggtaa				207

<210> 1838

<211> 1332

<212> DNA

<213> B.fragilis

<400> 1838

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aatattgagt	tggaaaccgac	ttttgctaac	ttacaaaaat	tacgtcatag	agaaattttt	180
ttgaatggat	tagaggataa	aattgtagaa	tttctagatc	cttcactaca	aaattacaat	240
gatagttggg	ataaaataga	tttgatgtta	tcgaaaattt	tatcaaataa	tttttagattc	300
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ggctatgatt	ataaccctag	aagacgcgat	atgggatatc	ataatatata	tgatcgttac	420
attgaattat	tggataaata	tggcaaatat	aaagatgata	ttcagtggca	tttccatcca	480
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tttgggtttgg	atgggtaaatc	ttgggtcatat	gttttttgatg	aaaatatgat	taagtttgaa	1260
gatgttgata	cgattggtgt	agcagctaata	gatatgtgtg	gacaagttag	cctcaaagt	1320
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<210> 1839

<211> 936

<212> DNA

<213> B.fragilis

<400> 1839

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ttctatattt	tccgtggaca	aagatactct	ttttctgtga	attccctatc	tttggccgct	180
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ggtgctgcc	tagccgattt	ttatcatcgc	caaaaagcag	acagattacg	cgtattttct	300
tctcagttcg	atgaagacga	aatacccgtc	aagcaacttt	tccgcaaagc	cggacaaatg	360
cctctactcg	aacgcacagc	cctcgcaatg	gctaccggaa	caatactcga	cgtagggtgcc	420
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aatctgttcg	acgaacgctt	tgccgcgact	ttcgatacca	tccttatgtt	gatgaacggt	600
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gaagacggca	gcttccctgat	cgacttggca	ggagattatt	atggagaaat	cgacttccgc	780
atgcaatata	aagatatcca	aggcgatccc	ttcgactggc	tgtatatcga	cttcagacc	840
ctcagcgctt	atgctgccga	caatggcttc	aaggccgaaa	tgataaaaaga	gggtaagcac	900
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<210> 1840

<211> 735

<212> DNA

<213> B.fragilis

<400> 1840

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tatcaggatt	atgacatccg	gggattactg	aaaaaagacg	aactggcctt	catactatca	480
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ggagccggaa	agacagttga	atatacactg	catgggacgg	atatgggagt	ctacgttttc	600
ctgatcgaag	gagaagtaaa	gatagatgat	gtgatcctga	ctcgccgcga	cggattggga	660
atatccgaaa	tcaagaattt	tgagatagaa	actctgaaag	actctaaaat	actactgata	720
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<210> 1841

<211> 597

<212> DNA

<213> B.fragilis

<400> 1841

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tataaacagc	tccgtgtggg	aagggtacgga	ggggattttt	atgtttataa	atttcgttcg	180
atgcgtgtag	gggctgataa	aaaggggttg	ataacggtag	gagggagaga	tccgagaata	240
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tatatagaac	agattatgcc	cgataagata	cggtataata	tgaaatatat	ctgtaatcgt	540
tcggtgaagg	aatattttaa	aattatattt	ctgacatttt	ggagcatcat	tcgttag	597

<210> 1842

<211> 1119

<212> DNA

<213> B.fragilis

<400> 1842

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accgcaggag	agaacagtgg	ttttcaggac	gaggcatata	cagccgtagg	agcacaaata	180
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<210> 1843

<211> 753

<212> DNA

<213> B.fragilis

<400> 1843

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ttgattcgat	tttatgaaac	gggggattac	actaagtatt	ctgactactt	tctaaatagg	720
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<210> 1844

<211> 1827

<212> DNA

<213> B.fragilis

<400> 1844

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<210> 1845

<211> 786

<212> DNA

<213> B.fragilis

<400> 1845

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ataataattg	atgggaaatc	taatgattca	acactaggaa	ttgtgaaaga	atatatacct	180
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tcatttgctga	ttaataataa	ttataatgtt	ataagggcat	gtagggaaaa	tgaggtatat	720
actaatat	ttatggtttc	tttgcgttac	ataaagaaaa	tatcagaact	gattttttaa	780
gttttag						786

<210> 1846

<211> 1470

<212> DNA

<213> B.fragilis

<400> 1846

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ggcaacttcg	gagaaatccg	ggctaaccat	tttcatggag	ggcttgattt	caagactcag	180
ggtgtcattg	gcaaaccggt	acgtgcgctc	gccgacggat	atatttcccg	tattcgcgtc	240
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cggcacttga	gcggtttcat	gcccgatatt	gcccggagag	tggagaaact	gcaatatgaa	360
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cagcaaatag	cctggagtgg	taataccggt	tattcattcg	gtccgcattc	gcattctggat	480
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gacacagtgc	cccccgaaat	taccccggtg	ggtaagaata	cctggggccg	taatgggaag	1440
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<210> 1847

<211> 849

<212> DNA

<213> B. fragilis

<400> 1847

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cgttttcgac	cgacgatgaa	agtcgaggta	tttattaacg	atggtgctga	agtgaaccg	240
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<210> 1848

<211> 693

<212> DNA

<213> B. fragilis

<400> 1848

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actgttactg	ccgattattt	ggtatttccc	atctcttaca	ttatcaacga	ctgtatagcc	180
gaagtatggg	ggttcaaaaa	agcccggttg	attatctgga	gtggctttgc	catgaacttc	240
ttttagtag	ccctcgga	gatcgccgtg	gcattgccgg	cggccctttt	ctgggaaggc	300
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gcttttctgg	tccgttcggt	cctcaatgcc	tacgtcatga	gtaaaatgaa	agtggccagt	420

ggcggacgta	acttttccgc	ccgtgccatt	tggtcgacgg	tggtgggaga	aactgccgac	480
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atgatgggta	ctcaaactcg	actgaagtct	ctctacgaag	tgattattct	tccgattacc	600
atccgtgtcg	tgaaaagccg	taagcgaatt	gacggaagcg	atgtctacga	tacggacatc	660
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<210> 1849

<211> 399

<212> DNA

<213> B.fragilis

<400> 1849

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gaaatggact	gcgtatgctt	tgagaatact	tccatggggc	tctatttcat	caatgatccg	360
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<210> 1850

<211> 186

<212> DNA

<213> B.fragilis

<400> 1850

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catatttatc	caataattca	atgtaacgat	catgtatatt	atgatatccc	atatcgcgtc	180
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<210> 1851

<211> 279

<212> DNA

<213> B.fragilis

<400> 1851

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tatctactgt	tcaaggcacc	gggcaagtgg	acggacagcc	aaaaacggag	ggctggaatt	120
ctgttcaagc	aattcccggg	tataaaggcc	gtgtgttatt	atgcgttaag	atggggaaaag	180
atttttactg	attatataga	caaggatgtg	gcgtgtgcca	aaaacttaga	ggtgggtgtt	240
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<210> 1852

<211> 444

<212> DNA

<213> B.fragilis

<400> 1852

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cagcttagtc	ccatttcggt	tagtgccgta	aaaggaaatc	agttattgat	tacattgaat	180
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tgtaacgaaa	gcgggactga	aaatcggaat	tgtaatatcg	gtgaattttc	ggaaaccgta	420
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<210> 1853

<211> 258
 <212> DNA
 <213> B.fragilis

<400> 1853
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 ataagcttac attatgaaga gcagcatatt acagccgtat gggctactt gacagtaaaa 180
 tttgaagagc attggaagcc tgttgatgta gaggtcgagt ttagatgcaa gttcaaggag 240
 cgaaaggtag atgggtag 258

<210> 1854
 <211> 1239
 <212> DNA
 <213> B.fragilis

<400> 1854
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 ctctcgtcagg aggttgaagg taagagttta ttggtgattg gtggtgcggg ttccatcggg 180
 tcttctctata taaaagccat tcttctcttt aagccttcca aacttgttgt gattgattta 240
 aacgaaaatg gattggccga actcaccgcg gatttgcgtt ccacttacgg tctgtatatt 300
 ccggacgagt atcgtactta tacattgaat tttgcagatc ccatcttcga gcgaatgttc 360
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<210> 1855
 <211> 1506
 <212> DNA
 <213> B.fragilis

<400> 1855
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 gcttctacac aaattgacgc ggtatattcc aatccggcgg gtgtggcttt catggaaaac 180
 ggcttccact tgtcactcaa cggacagagt gcgttccaga caagaactat cacttctact 240
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<210> 1856

<211> 1221

<212> DNA

<213> B.fragilis

<400> 1856

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gaatttggtc	cgttgacgac	tcctttatct	atcggtaacg	aaaaaaaata	ccttgacgaa	180
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<210> 1857

<211> 234

<212> DNA

<213> B.fragilis

<400> 1857

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actcttgatg	cactgggact	tcgcaaattg	aaccgtgtgg	ttgaacacga	aagcactcct	180
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<210> 1858

<211> 342

<212> DNA

<213> B.fragilis

<400> 1858

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<210> 1859

<211> 1851

<212> DNA

<213> B.fragilis

<400> 1859

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atcactaaca	acgaactgac	tttctcctac	aagctcagag	atggaattgc	gcagaacatg	1800
aatgcctgct	tcttgatgaa	aaaaatggga	atagccgtca	tcgacgacta	a	1851

<210> 1860

<211> 582

<212> DNA

<213> B.fragilis

<400> 1860

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gtgaacccgg	ctatcaatgt	tgctattgaa	gatggacaca	tcactttaac	tgaaaacgaa	180
aatgcaatgc	tggataatcc	caagcagaaa	catgcatttc	acggtttgta	tcgttcgtta	240
gtacacaaca	tggttggttg	tgtttctgaa	ggatataaga	aagaattgga	gcttggtggg	300
gttggttacc	gtgcttctaa	tcaaggaaat	atcattgaat	tagcattagg	atatacacac	360
aatatcttta	tacagttgcc	tcctgaagtc	aaagtagaga	caaaatcaga	aagaaataag	420
aatcctctta	ttctttttaga	gtcttgtgac	aaacaattgc	ttggtcaagt	ttgctctaag	480
atacgttctt	tccgtaagcc	cgaaccgtat	aaaggtaaag	gtattaagtt	tggtggcgag	540

gaaattcgca gaaagtctgg taaatcagcc ggtgctaagt aa

582

<210> 1861
<211> 612
<212> DNA
<213> B.fragilis

<400> 1861
aaagaaatgg ctagatatcc tggacccaaa tcaagaatag cccgtaaatt cgggtgaaggt 60
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tcaagaaaaa gaaaaacttc tgaatatggt attcagcttc gtgagaaaca gaaagctaaa 180
tatacttatg gagtattaga aaaacaattc cgcaacttgt tcgaaaaggc agctacagct 240
aaaggtatta cgggtgaggt acttctccag atgcttgaag gtcgtcttga caacatcgtg 300
ttccgtttgg ggattgctcc tacgctgca gcagctcgtc agttggtagg ccacaaacac 360
attacagttg atggacaggt agtaaacatt ccttcatacg cagttaaacc gggtcagttg 420
attggcgttc gtgaaagatc taaatctttg gaagtaattg ctaattctct cgctggtttc 480
aatcacagca aatatgcttg gttggaatgg gatgaagctt caaagggtggg caaattgctg 540
catattcctg aaagagcaga cattcctgaa aacattaaag agcatttgat tgttgaattg 600
tattctaaat aa 612

<210> 1862
<211> 489
<212> DNA
<213> B.fragilis

<400> 1862
aaaatgagac ataataagaa attcaatcat ttaggtcgta ctgcttctca cagaagtgtc 60
atgttatcta acatggcttg ttctttgatc aagcacaaaa gaatcactac gactgtagca 120
aaggcgaaag ctctgaagaa attcgttgag cctttgatca caaagtctaa agaagacact 180
acaaactctc gtcgtgttgt atttagcaac ttgcaggata aactcgctgt aacagaattg 240
ttcaaggaaa tctctgtgaa gattgctgac cgtccgggtg gttatactcg tatcatcaag 300
actggaaacc gtttgggtga caatgctgaa atgtgcttca tcgaactcgt tgactacaac 360
gaaaacatgg ctaaagagaa agttgctaag aaagcaactc gtactcgtcg ttcaaagaaa 420
actactgaag ctgctcctgc tgccgaagta cctgcaactg aagaaccgaa agctgaatca 480
gcagaataa 489

<210> 1863
<211> 1008
<212> DNA
<213> B.fragilis

<400> 1863
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accgttggta atgcttttgc ccgtatcctc ctttcttcat tagaaggttt tgctatcacc 180
actatccgta tagaagggtg tgagcacgaa ttttctagtg ttcttgaggat aaaagaggat 240
gttaccaaca ttatcttgaa tctgaaacaa gtgagattca agcaagtagt tgaagaattc 300
gagagcgaaa aggtgagcat cactatcgag aattctagtg aatttaaagc aggtgacata 360
ggtaagtatt tgactggatt tgaagtgtta aatccggaat tagttatttg tcatttagat 420
tctaaagcaa ctatgcagat tgacattaca attaacaag gtcgtggata tgtccccgct 480
gacgaaaacc gcgaatattg taccgatgtt aatgtaattc caatcgattc aatctatacg 540
ccgatacgta atgttaagta tgctgtagaa aacttccgtg tagagcagaa gactgactac 600
gagaaactgg tacttgaaat tactaccgac gggtccattc acccgaaaga agcgctgaaa 660
gaagctgcta aaattctgat ttatcacttt atgttattct ctgacgaaaa aattactctt 720
gaaagtaatg acgttgacgg taatgaagag tttgatgaag aagtattgca tatgcgtcag 780
ctgttgaaaa ctaaacttgt cgatatggat ctgtcagtaac gtgccctcaa ttgcttgaag 840
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ttcagaaact tcggaaagaa atcgcttacc gagcttgatg atttgctgga aagtctgaat 960
ctgtcgtttg gaaccgatat ttctaaatat aaattagata aagaataa 1008

<210> 1864
 <211> 450
 <212> DNA
 <213> B.fragilis

<400> 1864
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 gtagaagttc ctgcttcaaa tttgaaaaaa gaaatcacta agattccttt tgaaaaaggc 180
 tacatcctta attataagtt tgtagaagat ggtcctcaag gaactattaa agttgccttg 240
 aagtatgatt ctgttaacaa agttaacgca atcaaaaaac ttgaaagaat atcttctccg 300
 ggtatgcgtc agtacactgg ttacaaagat atgccgcgtg ttattaatgg tttgggtatt 360
 gctataatat ctacttccaa aggtgtaatg acaaacaaag aagctgctga actgaaaatc 420
 ggtggtgaag tattgtgtta tgtatattaa 450

<210> 1865
 <211> 561
 <212> DNA
 <213> B.fragilis

<400> 1865
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 aagtcacaat tccagtattc ttctacaatg cagatacccg tacttaagaa gattgttatt 120
 aatcagggtt taggtatggc tgttgctgat aagaagatta tcgaagtggc aatcaacgaa 180
 atgacagcta tcactgggtca gaaggccgta gctactattt cgcgtaaaga tatcgctaac 240
 tttaagttgc gtaagaaaat gccgatcgga gttatggtaa ctctgcgtcg tgaaagaatg 300
 tacgaattcc tggaaaaatt ggttcgtgtg gctttgccgc gtatccgtga cttcaaagg 360
 attgaaacta agttcgatgg taagggtaac tatacccttg gtattcagga acaaatcatt 420
 ttccctgaaa ttaatatcga tagtattacc agaattctcg gaatgaatat tacctttgta 480
 acctctgcgc aaacagatga agaagggttat gccttattga aagaattcgg tttaccgttt 540
 aaaaacgcta aaaaagactg a 561

<210> 1866
 <211> 303
 <212> DNA
 <213> B.fragilis

<400> 1866
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 tatgccgaaa agagagctgc ctggaagcag attgtgagaa ccggagatcc tgctgaagct 120
 tttgaagctg cacagaaaatt acaggagctt cctaagaatt ctaatccgat tcgtatgcac 180
 aatcgctgta aattgactgg tcgtcctaaa ggatacatcc gtcagttcgg tgtttcaaga 240
 atccagttcc gtgagatggc atctaattggg ctgatcccag gtgttaagaa agcaagctgg 300
 taa 303

<210> 1867
 <211> 222
 <212> DNA
 <213> B.fragilis

<400> 1867
 tatatggcaa agcaatctgc aatagaacaa gatggagttta tagttgaagc attgtctaat 60
 gcaatgtttc gtgttgaaatt agaaaacgga catgagatta ctgctcatat ttctggtaag 120
 atgagaatgc attacattaa gatcctaccg ggtgataaag tcagagtcga aatgtctcct 180
 tacgacttat cgaaaggaag aattgtattt agatataaat aa 222

<210> 1868
 <211> 477

<212> DNA

<213> B.fragilis

<400> 1868

ttatattgttg	aatataaaac	gaattacaat	atgaacttaa	gtaattttaa	acctgcagaa	60
ggctctacta	aaacaagaaa	aagaatcggg	cgtgggtccg	gttctggcct	aggaggtact	120
tctacaagag	gtcataaagg	tgctaaatca	agatctggat	actctaagaa	aatcgggtttt	180
gaaggtggtc	agatgcctct	tcaacgtcga	gtacctaaat	ttggttttta	gaacatcaat	240
agaattgaat	ataaaagctat	taacttagaa	acaatccaga	aattagctga	agctaagaag	300
ttggaaaaag	taggtgttaa	tgactttatt	gaagctggat	tcatttcttc	aagccagttg	360
gttaaagtat	taggtaacgg	aactttgact	gctaagctga	gtgtagaagc	tcatgcattc	420
tctaagagtg	cagttgctgc	tatcgaggct	gctgggtggaa	atgtagttaa	actctga	477

<210> 1869

<211> 447

<212> DNA

<213> B.fragilis

<400> 1869

acagtcggac	tgaataatct	gttatatttg	caggcagata	tggcaaagtt	cattaaaaatt	60
atattgttca	tggtgtttgc	tgtggcactt	catagtgtag	ctaacgacta	tttcgctgaa	120
aaacaggcgg	aacaagatat	ctatatggct	atgtcaacaa	tgaaagggga	tacgcacgaa	180
acagtcagca	gtccccagac	accctatttc	cctgatgccg	aattggcccg	gaccggaatt	240
cagacgcac	agatcgcaat	gtcgcgcata	cagcgtatac	aagcggccga	atctattttt	300
tctttaaaag	cccttgctca	aaggctggca	gaccgtgatg	ctgttttatc	tcagcattgg	360
gggaagcttt	atgaaaccac	tacttcttat	tggtggcatc	ctgtaagcga	atactatggt	420
ttcgcctctaa	ggcgtattat	tgtatag				447

<210> 1870

<211> 357

<212> DNA

<213> B.fragilis

<400> 1870

atttgtatta	ttatgacaac	aaaaatagaa	agacgaatta	agatcaaata	tagagtacgc	60
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atctatgtcc	agattatcga	cgatttgtct	ggtaagacat	tggctgctgc	ctcttcaactg	180
ggtatgactg	agaagttgcc	taagaaagaa	gttgctgcta	aagtgggtga	gattattgctg	240
aaaaaagctc	aggaagcagg	tattacgact	gttgttttcg	accgtaatgg	ttacttgtat	300
catgggagag	taaaagaagt	agctgatgct	gctcgtaacg	gtggacttaa	atttttaa	357

<210> 1871

<211> 384

<212> DNA

<213> B.fragilis

<400> 1871

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ttgacctatg	tatatggaat	aggtcgtagt	agttcagcaa	aaattttaga	taaagctggt	120
gtagacaaag	atctgaaggt	gaaagactgg	acagatgatc	aggctgcaaa	gattcgtgag	180
atcatcggtg	cagagtataa	ggttgaaggt	gatcttcgtt	ctgaagtaca	attgaacatt	240
aagcgattaa	tggatattgg	ttgctaccgt	ggtgtacgtc	accgtattgg	tctgcctgta	300
agaggtcaga	gcactaagaa	caatgcgcgt	actcgtaagg	gtagaaagaa	aaccgttgca	360
aataagaaaa	aagctactaa	ataa				384

<210> 1872

<211> 531

<212> DNA

<213> B.fragilis

<400> 1872

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aaagacagat	tagttgctat	taatcgtgtt	actaaagtaa	ccaaaggtgg	tagaactttt	120
agttttctctg	caattgtagt	tgtaggtaac	gaagaaggta	ttatcggttg	gggacttggt	180
aaagctgggtg	aagtaacagc	agctatcgct	aaagggtgtg	aatcgggctaa	gaaaaaatctg	240
acaagagtgc	ctgtactgaa	aggtactgtt	cctcacgaac	agtcagctaa	gtttgggtggt	300
gctgaagtat	tcatacaacc	tgcttctcac	ggtactgggtg	ttgtagccgg	tggtgctatg	360
cgtgccgtat	tggaagtgt	tggtgtaact	gacgttttgg	ctaaatcaaa	aggatcttca	420
aatccgcata	accttgtaaa	agccactatc	atggccttag	gcgagatgcg	tgatgcaaga	480
atgattgctc	agaacagagg	aattagtgtt	gaaaaagtat	ttagaggata	a	531

<210> 1873

<211> 804

<212> DNA

<213> B.fragilis

<400> 1873

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cttgttggta	gaacgttggc	tgaagttgcc	aaacttgtga	aaccgggagt	taccactaaa	120
gagctggata	aggtagcggg	agagtttatc	agagatcatg	gtgctgttcc	tacctttaa	180
ggttttccca	atcaatatgg	agatccgttt	cctgcctctt	tatgcacatc	ggttaatgaa	240
caggtagtgc	atggcattcc	gggagatatc	gtgttgaaag	acggtgatat	tgtatcggtc	300
gactgtggta	cctacatgaa	tggtttctgt	ggtgattcag	cttatacctt	ttgcgttggt	360
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tgtgagtccc	attcttatgg	tggtgtgctg	gaatttgtcg	gtcatggtat	tggtaaagac	540
atgcacgaag	accctcaggt	accgaattat	ggtaaaagag	gatacgggaa	acttttaaag	600
aaaggtcttt	gcattgcatg	tgaaccgatg	attacgcaag	gtgaccgaca	agttattatg	660
gaacgtgacg	gatggacagt	gagaaccaga	gatcggaat	gtgccgcaca	ctttgaacat	720
accattgcgg	taggtgcagg	cgaggctgat	attctgtcat	catttaaatt	catagaagaa	780
gttttaggag	ataaagcgat	ataa				804

<210> 1874

<211> 648

<212> DNA

<213> B.fragilis

<400> 1874

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gctatcgatg	caacaatttt	tgcatcttca	caccagata	ttgcaaaacg	caccagtgtt	180
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tttgagatga	aagaccgttc	atcgactatc	agtatgggac	ttatgggtact	aggcaccgcc	300
ttgttcttga	ttggcggttt	cgggttggtt	tggaatcca	aggagattgt	ttacttgccg	360
acgggcagtg	ttgctaaaga	gcaaagtatc	ttttttgatt	tgaaacatct	ggatgaattg	420
acagacatgg	tgaagtcggg	tgatttctct	atgcaatcga	ctgccaaagg	tggtacaagt	480
ggaaatctgc	gttttagatgt	aatgctgtcc	gaagacagaa	agtttgccgc	cgtacaattg	540
ttccaatttg	tacctatac	ttataaccgc	gttacatccg	tacgttattt	cacgaatggt	600
gaagcagctt	ctattgcccgc	tttcttgact	aagacaaaag	gacactga		648

<210> 1875

<211> 405

<212> DNA

<213> B.fragilis

<400> 1875

ataataattg	ttgatatggc	aaaaaaaaca	gtcgcagcta	agaagagaaa	tggttaaggta	60
gatgctaattg	gacaattgca	tgttcattca	tctttcaaca	atattattgt	ttctcttgca	120

aatagtgaag	ggcagattat	ctcttggtcg	tctgcaggaa	agatgggatt	tagaggttct	180
aaaaagaata	ctccttatgc	agctcagatg	gctgcccagg	attgtgctaa	aattgcattc	240
gatcttggcc	tgagaaaggt	aaaagcatat	gttaaaggtc	cgggtaacgg	tcgtgaatct	300
gctatcagaa	cgattcatgg	tgccgggtatt	gaagttacag	aaatcattga	cgtaactccg	360
cttccgcata	acggttgtcg	tcttccgaaa	agacgtagag	tttaa		405

<210> 1876

<211> 1359

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (199)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1876

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gtcgtgtttc	ctggaatcaa	cccgggtatg	ctgacacaat	tgcatcgaca	aacaagtgag	180
ggccttttag	ccttggtana	cgtgtttctca	ggagcagcat	tttctaatac	atctattttc	240
gcattaggaa	ttatgcctta	tatctgtgca	tcgatcgtaa	tccagttgct	gggaatcggt	300
gtgccatatt	ttcagatact	tcagcagagag	ggagaaaagt	gcagaagaaa	gatgaatcaa	360
tatactcggt	atttgacgat	tgctattttg	ttgggttcagg	ccccttctta	tttgctcaat	420
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gtacaaggta	caagaaaaat	tctgtacag	tatgcaaaga	gaatcggttg	taataaacag	780
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tttgcagtaa	tgattatctt	atttacgtac	ttctatactg	cgattaccat	taacccgact	1020
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gctcaattct	tcgggtggtac	gtctctgtta	attctttag	gtgttgtttt	ggatacactg	1260
caacaagtcg	aaagtcattt	gttgatgaga	cattatgatg	gcttgttgaa	gtctggctcg	1320
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<210> 1877

<211> 186

<212> DNA

<213> B.fragilis

<400> 1877

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ccccggcttc	ctatatataa	agcccgttcc	atggtaggta	attttatcga	tatggctgaa	120
aagataacca	ttgctatcgc	attgattccg	aaacagaggc	tgaaggatag	aggagagagt	180
ccgtag						186

<210> 1878

<211> 534

<212> DNA

<213> B.fragilis

<400> 1878

gccagtatac	ctcctccgat	aggggcatg	actgtagcta	ttccatttat	tccgccgata	60
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acggcaagca	tgccggccag	ttgctgtccc	gaatactcgt	cggtagctat	ggagcgggaa	120
atcactacac	cacctgctcc	ggcaatgcct	tgtagaatc	gggatgtcac	aaattgtgaa	180
atgggtatgtg	aaaagatgca	ccccaccgta	gcgagcagga	acagaatcat	ggccagaagt	240
aatggaggac	gtcgcccgtg	cttgtcactc	aagggaccga	aaattaattg	tccggcagcc	300
aagccaatca	tgtgtgtgtg	gagtcccaat	tgtaccatag	aagatgaagt	gtggaaaaaa	360
tctgccatag	ccggtaaggt	aggcaaatac	atgtccatta	taaaagggcc	gaaagcactt	420
aatacaccta	aaaataataa	taagaaccgt	ctggaattct	gtctgtcagt	cattgctatt	480
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<210> 1879

<211> 2280

<212> DNA

<213> B.fragilis

<400> 1879

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atcggtagag	gcggacacgg	tcatactttt	ccgggcgcca	ttgtcccca	tggcatgatt	180
tctcccagcc	cagacacccg	catagatggg	tgggatgcct	gctcgggata	ttattacgca	240
gatttcacca	tcaacggatt	ctcacacacc	catttgagcg	gaactgggtg	ttgcgactat	300
ggagatgtac	tactgatgcc	tacgggtggc	gaacaaaagt	acctccccac	aggttcacag	360
agccagcaga	tggcttatgc	ttctgccttt	tcacatcaga	atgagactgc	cgaaccgggc	420
tattactcag	tcttctctga	tactttcaa	gtaaaagccg	aactgactgc	aagcaaaccg	480
gcagctatcc	acagataatac	ttttcctgaa	agtaaagaag	caggattcat	cctcgacttg	540
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gaaatctgcg	gccgtaaaaa	gaccatgtac	tgggctttcg	accaatatat	caacttttat	660
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<211> 2409

<212> DNA

<213> B.fragilis

<400> 1880

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<210> 1881

<211> 3663

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (231)

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<400> 1881

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<400> 1882

<210> 1883

<211> 195

<212> DNA

<213> B.fragilis

<400> 1883

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<211> 705

<212> DNA

<213> B.fragilis

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<210> 1885

<211> 2211

<212> DNA

<213> B.fragilis

<400> 1885

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<211> 1044

<212> DNA

<213> B. fragilis

<400> 1886

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<210> 1887

<211> 408

<212> DNA

<213> B.fragilis

<400> 1887

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gcaatgaaca	aatgggggtgc	catctgggga	caagggtgtag	gtttgcaagg	acaaacttac	180
ggaataccga	ccatgcaggg	tggagtagaa	acaatccgcc	cttatgtaga	cgaatttatt	240
caatttgcaa	ataaacatcc	ggaaatgact	tttctgggta	cggaatagg	atgtggcata	300
gccggattta	ctcctcaaga	aatagctcca	ctatttgcta	aagccacaac	tacagagaat	360
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<210> 1888

<211> 378

<212> DNA

<213> B.fragilis

<400> 1888

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ttcccgacga	tatccccaaa	gaaagggagt	cgtggcgtgc	gccagtatag	gaaagaggat	180
gtggaaacca	ttcgctgat	ctatcatttg	gtgaaagaaa	gaggaatgac	tctgcccgga	240
gctcgccaga	aactgaaaga	taacagggaa	gcgacgatcc	ggaattttga	aattatcgac	300
cgtttgaagc	agattcgtca	agagttgatc	ggaatgaggg	atgctttgga	tgggttttca	360
acaaaaacgg	gaggggct					378

<210> 1889

<211> 201

<212> DNA

<213> B.fragilis

<400> 1889

aaagaggaga	accgttgctt	taaaagccaa	aggattgttg	gttttaaagg	caggatcctt	60
tggttttcaa	ttaacatctt	gaatcttaag	tatctgtttg	ttagtgaatc	atggcttatg	120
gtatgctttg	actttatctt	tagtcggttg	cattggattt	taaatctcct	tttagcgttt	180
tgtcaggaaa	gaacgccata	g				201

<210> 1890

<211> 552

<212> DNA

<213> B.fragilis

<400> 1890

catgcaagcc	ttattaacat	gcgagtaatc	agcggaatat	ataaaagaag	aagatttgat	60
gtgccagaa	ccttcaaggc	acgtccgaca	acagattttg	ccaaagagaa	tctgtttaat	120
gtattatcca	attacatgaa	ttttgaagag	ggcattgttg	ctctcgatct	gtttgccggg	180
acaggcagta	tcagtataga	gctgggtttca	cgtgggtgtg	accgcgtcat	cagtgtggag	240
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tgccctgccta	tccgtggaga	tgtattttaa	ttcataaatg	gcagtcatga	acggtttgat	360
ttcatttttg	ccgatcctcc	ctatgaacta	aaagagttgg	aaacaattcc	ggattttaatt	420
ttcaagaaca	acctgctgaa	agaggatggc	ctgtttgttc	tggaacatgg	caaaaagaat	480

1000
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 800
 700
 600
 500
 400
 300
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 ttcttcagat ag 552

<210> 1891
 <211> 1170
 <212> DNA
 <213> B.fragilis

<400> 1891
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 gagcatatgg tatggtttga tgcccgtccg tcggacgac ctagcaggatg ggagattttt 180
 cataatgatt cgtttccggg ttctatagcg cgtgtttatc aaggcatcta taagggaagac 240
 cgccttcggg tgattgaagc ttgtcggggg atactgaaag gcaaaatgaa gaaagtgggtg 300
 gtcgaacttc gtttctgggc taaaaagaga gagggattcg tattggagtg gttggaaatg 360
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 atgtccatta ccaggcgaaa gggtatggaa gaagaactga ccgcagctaa agagaaagca 480
 gaagaagcca atcggttgaa atcggcattg attgctaata tgaaccatga gatacgtaca 540
 ccgttgaatg cgattgtagg ttttgcattc ttgctctcta tcatagatga cgaaaaagag 600
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 aacctggttt tggcttggga tcgggagcag tcgaatgctc acatctatac agatcgggac 840
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 gatagcttta cccaagggct tggattggga ttgtcccttt gtaaaattat tattgagcgt 1080
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<210> 1892
 <211> 1128
 <212> DNA
 <213> B.fragilis

<400> 1892
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 gccatcgaca actgcccaca cgaccgcctg ttcatcttca ctgacgatca tactcaccgt 180
 ctctgccttt ctcaactggc aggttatca atcctgaaag atgctgtcga aatcaccatc 240
 ggagccgaag acgtacataa aacactcgaa accctggcct ctgtctggca ggtattaagt 300
 gaaaaaggcg ctaccgttca ctgcctctc atcaatctcg ggggcggaat ggtcactgat 360
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 accctgctgg caatggtaga tgcttctgtt ggccgggaaaa ccggcattaa tttcaacgga 480
 ttgaaaaacg agataggtgc ctttgcacct gcagccagtg tattaatcga aacagagttt 540
 ctccgtacac tcgatgcaca taatttcttt tcgggatacg ccgagatgct aaaacacgga 600
 ctgatcagca acacctctca ctgggctgaa ctgcttgcac tcgatacggga gaagatggat 660
 tacggatatc tgaaaaaatt ggtaggccac tccgtacaag tgaaagaaga tatagtggaa 720
 caagatccat tcgaacacgg catccgcaaa gcattaaacc tgggacatac cgtaggacac 780
 gctttcgaaa gtctggcgct tgctgagaat cgtccgggtc ttcacggata tgccgtagct 840
 tggggcattg tttgtgaact ctatctatca catctcaaag ccggcttccc aaaggagaaa 900
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<210> 1893
 <211> 885
 <212> DNA

<213> B.fragilis

<400> 1893

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cgggtgtgga	tctatctgat	ttgtacgcag	ggagaagccg	ttgtctctac	cgggtgtgcag	180
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cagttgggtg	ctgaaataaa	agtgtgtgtg	aatgaacctc	gtttatctgt	aacagaaata	780
gctgagcaac	tgcattttcc	ggaccaatcc	tatttgacgc	atttctttta	aaagaatacg	840
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<210> 1894

<211> 600

<212> DNA

<213> B.fragilis

<400> 1894

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cgcctggtgg	gcatgaaga	agcagaagat	gtggtacagg	atgtattcgt	ggaactgtgg	180
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gacaaatgca	aggaagtgtt	taagtgtgagc	tatctgcacg	aatgaagaa	taaagaaata	480
gctgacgtga	tgggagtctc	tttacgtacg	gtagaagccc	acatgtacaa	ggcactgaag	540
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<210> 1895

<211> 1437

<212> DNA

<213> B.fragilis

<400> 1895

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<210> 1896

<211> 198

<212> DNA

<213> B.fragilis

<400> 1896

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aacttcggtg	taggacggaa	cagacgtcac	acgaatgtgc	ttcatgttct	cacaaacctat	180
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<210> 1897

<211> 2301

<212> DNA

<213> B.fragilis

<400> 1897

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ggaacgcagt	cttcttttga	attatcaacc	gggaacacct	atcccgctat	tgacacgtccg	180
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<210> 1898

<211> 1293

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (210)

<223> Identity of nucleotide sequences at the above locations are unknown.

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<210> 1899

<211> 2631

<212> DNA

<213> B.fragilis

<400> 1899

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<210> 1900

<211> 441

<212> DNA

<213> B.fragilis

<400> 1900

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<210> 1901

<211> 1971

<212> DNA

<213> B.fragilis

<400> 1901

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<210> 1902

<211> 591

<212> DNA

<213> B.fragilis

<400> 1902

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agtcaagtga	tcaaaacatt	ctgggttctgc	ggaaaagagc	gctatcacaa	tgcgttctat	480
atgacccgta	tctactacgc	attcctgatc	tctatgcaaa	cagacactta	tggagcccat	540
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<210> 1903

<211> 1500

<212> DNA

<213> B.fragilis

<400> 1903

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[illegible]

<400> 1905						
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<210> 1906

<211> 1158

<212> DNA

<213> B. fragilis

<400> 1906

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<210> 1907

<211> 912

<212> DNA

<213> B. fragilis

<400> 1907

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<210> 1908
 <211> 2970
 <212> DNA
 <213> B.fragilis

<400> 1908

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<210> 1909
 <211> 1269

<212> DNA

<213> B.fragilis

<400> 1909

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<210> 1910

<211> 240

<212> DNA

<213> B.fragilis

<400> 1910

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tacatgtctg	aatataaatc	gtctacatgg	gactattaca	tatggggcgt	atccgatttt	180
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<210> 1911

<211> 1512

<212> DNA

<213> B.fragilis

<400> 1911

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gtttttctatt	tcttttttgg	gcgtagccaa	aggcgtgaga	agattatcgg	taagaaaagt	300
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<211> 1029

<212> DNA

<213> B.fragilis

<400> 1912

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aaaacttact	cggtgtgatt	gaagaaaaaa	gataatatag	agtctgtact	ccaatcgttg	960
gacaactcta	tacctatcaa	ttataagatt	gtgggagaca	atatctttat	ttcttcacgt	1020
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<210> 1913

<211> 231

<212> DNA

<213> B.fragilis

<400> 1913

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agcattcaga	gcttgatatt	agctttgatt	aaattattat	gtatcgattt	gaacttctat	180
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<210> 1914

<211> 1155

<212> DNA

<213> B.fragilis

<400> 1914

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<210> 1915

<211> 933

<212> DNA

<213> B.fragilis

<400> 1915

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gatcctccgt	taattccctc	acccttaoct	attattcccg	aacttcaaca	ttttcttgag	480
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aaagagcttg	ctttcatact	cgtttatttt	tattcggatt	atgacctggc	ttccctggta	600
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gggttcgaat	ctttaccgca	tttctcaaac	ttctgtaaaa	agtcatttgg	tacctcgcca	900
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<210> 1916

<211> 258

<212> DNA

<213> B.fragilis

<400> 1916

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gacgggatgc	agccggcggg	atattctgga	cgattatccg	gtgagtgggt	tggaagtgcg	180
gctggattgg	agcggagtga	cggagaagtt	gccggaagga	gttcggatta	ttttctatcc	240
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<210> 1917

<211> 969

<212> DNA

<213> B.fragilis

<400> 1917

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<210> 1918

<211> 219

<212> DNA

<213> B.fragilis

<400> 1918

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ttttcacctc	tggctgcacg	tgtacgaagg	gcacgtggag	agtctccaaa	ggaagctttg	180
cagaaatgtg	caaaatgtga	taaagagtcg	aatccgtaa			219

<210> 1919

<211> 1026

<212> DNA

<213> B.fragilis

<400> 1919

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gccatggtag	caatgccgga	tgccctggacc	agaatgatga	ttggtgtaaa	ccagaaggat	180
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tacagagAAC	attcacctgt	acccataaccg	gatgataaaag	ctgccggtgt	gtttttgagt	420
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<210> 1920

<211> 498

<212> DNA

<213> B.fragilis

<400> 1920

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<210> 1921

<211> 2502

<212> DNA

<213> B. fragilis

<400> 1921

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<210> 1922

<211> 1029
 <212> DNA
 <213> B.fragilis

<400> 1922
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<210> 1923
 <211> 1134
 <212> DNA
 <213> B.fragilis

<400> 1923
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 attaccgatg ccacacaacc ttggcgcttt gtagctccat tggagaaaaga gtttttgccg 180
 ccttcccgtt tacttgcgat agcggattct gtcatgggag gagcttcggc cacagccatc 240
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 gggcgcatct gggggcttcc tggtaaaatt ataatgttcc ttgcgagcct gacgggtgct 1080
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<210> 1924
 <211> 291
 <212> DNA
 <213> B.fragilis

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 aaaaagaagc aacctaaccg aaagcagaaa caggaaaaac aagaacaaaa tggaaggaag 180

aaagagtata tgaaggtatt ttatctttcc ggaagccttc ttcattcaag agcaacggga 240
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<210> 1925
 <211> 429
 <212> DNA
 <213> B.fragilis

<400> 1925
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 gagcataccc gtcacgagtt tctttcatcg gtaggcgtaa gctttgcaaa actgcatgaa 180
 gagggagtcg atccgggtgg agcccgcatc aatatggctt tcaaaacccc gttgaagagt 240
 ggcgatgaat tcgtttccaa attgtatatg aagaaagaag gcatcaaata tgtattctat 300
 caggatatct ttcggaaaag cgatgataaa gtatgcgtta agtcgaccgt agagaccgta 360
 tgtgtcgtta atggacgctt gagcaacagt gagttattcg atcagatctt cgcaccctat 420
 ctgcaatga 429

<210> 1926
 <211> 768
 <212> DNA
 <213> B.fragilis

<400> 1926
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 aacacaggtg ctccctcaaga tgccaacgct atccttatct ctaaggatat cgccgacgag 480
 gctatggatg ccgctgcatg tatcggttgc ggtgcttgtg tagctgcttg taagaatggt 540
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 gtagaagcag cagcccgctg aaaagctatg ctttctaaga tggacgaact gggattcggg 660
 aactgtacaa acacacgtgc ttgtgaagca gagtgtccga agaacatttc aatcagcaac 720
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<210> 1927
 <211> 636
 <212> DNA
 <213> B.fragilis

<400> 1927
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 tttgcgagga attatagcaa agccttttct aaatcggcac cttatatgct ggtaggtgta 180
 ccggtggcga tggctgtata tgcaggatc gataaagata aagagttgct gaaagatgcc 240
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 tttgaccgtg agcgtcccta cgaccgttat ccggtatcgg tagatgcacg tagtcatgaa 360
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<210> 1928
 <211> 1029
 <212> DNA

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<213> *B. fragilis*

<400> 1928

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tcaccattta	gtgaagaaga	tactccggct	ccgaatacgg	cttacggatt	aagcaagctg	480
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<210> 1929

<211> 495

<212> DNA

<213> *B. fragilis*

<400> 1929

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ctcaatatac	tgatgcgcca	ttacagtagc	cggaattttg	tgtattccga	tccggcagtc	420
aagaacgtaa	aaatctggga	gattccgatt	gacagcgta	cggcaaagga	gtacgcagtg	480
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<210> 1930

<211> 993

<212> DNA

<213> *B. fragilis*

<400> 1930

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gccgatatgg	tatacaccca	gttcgtctcg	agtgatgctt	tgatacgttc	cgtcaataaa	180
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gaacgcaggg	ggatcatcca	tatccgccgt	catctggcag	caactcccct	atttaaagga	900

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<210> 1931
 <211> 1959
 <212> DNA
 <213> B.fragilis

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 gacattatcg ttgtaggtac cggacttgcc ggagcatctg ctgccgcttc tctgggcgaa 180
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<210> 1932
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 <212> DNA
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gcacacctgg	gaggctatac	cactaccact	tttcgccggt	tattcaagaa	catgtatggc	660
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<210> 1933

<211> 903

<212> DNA

<213> B.fragilis

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taa						903

<210> 1934

<211> 225

<212> DNA

<213> B.fragilis

<400> 1934

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<210> 1935

<211> 954

<212> DNA

<213> B.fragilis

<400> 1935

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<210> 1936

<211> 1278

<212> DNA

<213> B.fragilis

<400> 1936

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<210> 1937

<211> 966

<212> DNA

<213> B.fragilis

<400> 1937

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tcgggacact	acgctgttgt	tatttacaat	tacgatactg	aaacggtctt	aattcgtgga	300
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gaagttgaaa	tagaagatga	aataaaaagta	gatgatgtgg	aaactcctcc	aagtggaggt	900
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<210> 1938

<211> 2157

<212> DNA

<213> B.fragilis

<400> 1938

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aaatatattt	tctcgggaact	gaagttaacc	actcatccgc	taaaaatgct	ttgcatggat	180
atcctgtccg	atctcctggc	tgatgactac	ataaccgaag	tagataaaaa	caaataaag	240
cttaacaatc	acggcataga	gatgaccgga	accttccagc	gcaaaagcaa	tggaaaagac	300
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<210> 1939

<211> 1230

<212> DNA

<213> B.fragilis

<400> 1939

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tatgtactca	gcctgggtat	caattccaat	gggactacca	cttattatgt	ggttactgca	180
cccgaattga	tgtccggaac	aatcaatgcg	gtggccaaag	gtatcgagca	aaacggatat	240
cgtgattatg	aacaggccgg	acaaacggtg	ttcagtattg	gcggactggg	actgaccagt	300
gcaaccggaa	ttgtacgtga	tgcaaacggc	tatctgacgg	agcgtggaga	ctttgtcttt	360
aacagttcgc	tgaatgcgtt	tacacaaatg	gacgggcaga	acatgatcgg	ccttgaactt	420
ccggctaata	aggagatggg	ggaccaaag	accttatata	ccgtaaatat	cagtgatgtt	480
tctatcactt	ctcaggtcaa	agctccggtg	tttccgctga	atcaactcga	atggccgagt	540
atcacgggta	tgtgttatag	tgaaggtaat	gtgtacgtta	cttattttcc	gatgaaccct	600
tccacttttg	agactttata	taccgatact	acttttggtg	cggtatactc	ttatccggat	660
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<210> 1940

<211> 861

<212> DNA

<213> B.fragilis

<400> 1940

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gtaaaagaca	tttcgtatat	tcctgcgggg	gaaacggacg	gttaccgtaa	agagcggttg	180
aaactcgatg	tttactatcc	ggtcgggaag	aaagactttc	cgacgatcgt	ctggtttcat	240
ggcgggtggat	tggagggagg	aggaaagcat	gttcccagga	tgtttatgaa	tcagggattt	300
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<210> 1941

<211> 195

<212> DNA

<213> B.fragilis

<400> 1941

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cttgctatct	ttagtgaata	tgggtctttt	tttatctcct	cctgcatatc	tgtgcccatt	120
agccagata	gcaaggctca	cataaacata	tcagaaggta	cggtaatact	cttattttaca	180
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<210> 1942

<211> 621

<212> DNA

<213> B.fragilis

<400> 1942

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tcaatcaaga	cagtgtatcc	cggaactggt	ttccggctcg	ttatcattgc	cgtggccggt	180
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gagaaaagca	tacgggttcaa	taccaaatat	gactggattg	tatacacatg	ttccttcctt	420
tcggcaatcg	gcttctacgt	gtttttacct	atggcaacga	acgtcgtccc	cggcatactg	480
aacgtcattg	ttattccgct	cggcatgtgc	atttaccttc	tgatcatcaa	acgctctctg	540
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621

60
120
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240
300
360
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480
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600
660
720

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360
399

[illegible]

<213> B.fragilis

[illegible]

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<210> 1948

<211> 2196

<212> DNA

<213> B.fragilis

<400> 1948

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<210> 1949

<211> 231

<212> DNA

<213> B.fragilis

<400> 1949

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acaggttcga	ccagcaccgg	attttccgta	aaagagaata	aagccaatac	acctatacat	180
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<210> 1950

<211> 954

<212> DNA

<213> B.fragilis

<400> 1950

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<210> 1951

<211> 2031

<212> DNA

<213> B.fragilis

<400> 1951

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<210> 1952
<211> 2286
<212> DNA
<213> B.fragilis
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<211> 183

<212> DNA

<213> B.fragilis

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<210> 1954

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<212> DNA

<213> B.fragilis

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<211> 684

<212> DNA

<213> B.fragilis

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<210> 1956

<211> 216

<212> DNA

<213> B.fragilis

<400> 1956

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aataagtatt	tatatctcat	ttttttctat	ttttttattc	cgtttctgat	tagtaatgcg	180
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<210> 1957
 <211> 1128
 <212> DNA
 <213> B.fragilis

<400> 1957

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<210> 1958
 <211> 498
 <212> DNA
 <213> B.fragilis

<400> 1958

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<400> 1959

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<210> 1960

<211> 1101

<212> DNA

<213> B.fragilis

<400> 1960

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<210> 1961

<211> 1554

<212> DNA

<213> B.fragilis

<400> 1961

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<210> 1962

<211> 711

<212> DNA

<213> B.fragilis

<400> 1962

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<210> 1963

<211> 189

<212> DNA

<213> B.fragilis

<400> 1963

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<210> 1964

<211> 2151

<212> DNA

<213> B.fragilis

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ttctcactgt	tcaagcaaaa	aggaatcttc	aatgaagagg	tagccaattc	cttccgtaac	2040
aacatcttgt	cgaaggcgg	aacagagcac	ccgatgatac	tttacaacg	tttcagagga	2100
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<210> 1965

<211> 249

<212> DNA

<213> B. fragilis

<400> 1965

ttactggaaa	agagcattta	cggaaatatc	atctataata	tgctggaaaa	agaagcctat	60
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gaaaaagcat	tccttaaggc	tcccgtcagc	gtagaacctc	aaaaggagga	aaagaaagat	180
ggaaagaaaa	aaacaactgc	gcaagtggat	agcacaggag	aagaagaaat	actccgactc	240
tacgcttaa						249

<210> 1966

<211> 309

<212> DNA

<213> B. fragilis

<400> 1966

aatggaggaa	aaagagagat	gaaacgaaac	gatgcggaac	cgattggaaa	actgattcag	60
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tgggagacgg	tgctgggacc	tactattatg	tcgtacacaa	gggatttgta	tattcgtaat	180
caggtgttgt	atgtacactt	gacctctgct	gccctccgtc	aggagttgat	gatggggcgg	240
gaacttttgg	tccgtaattt	gaatcagaag	gttggggcta	cggtgattac	caatattatt	300
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<210> 1967

<211> 1284

<212> DNA

<213> B. fragilis

<400> 1967

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ctgcaaatcg	aagggtgtcg	aatcaaagca	ctttgtgaaa	tcagggaagg	caatctgggt	180

[illegible]

<213> B.fragilis

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attaccaaaa	agaacgaaca	caaaccctat	gatttctggg	gtgataaaga	caaatatgaa	180
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aaagggaatt	acgacaacct	ctttatctat	tacaaggatg	agggaggaag	agagttatgc	480
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<213> B.fragilis

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aaagacaaaa	tgattatctc	agacggatat	aacggaacac	catccggctt	tgaaaacggt	180
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accaagatag	caggttccaa	caacagtagt	gacggtgcta	cgatgtatgt	cactgcttca	300
ccttgcatcg	aatgtgccaa	actgatcata	caggcaggca	tcaagcgagt	ggtgtactct	360
gaacactatc	gcttggaaga	cggaatagag	ttactgcaac	gtgcagggat	cgaggtcggt	420
tttgtcgata	cgagtgaaaa	atga				444

<213> B.fragilis

actatgagac	taaaattaaa	acatatatac	ttctgctcat	tgatagcaat	gggcggattg	60
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aagtacttca	gtacagtaga	ccaggtagca	aactacctca	ataactacta	caacgactat	180
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atcaataatg	aattgtatga	cggctctgact	tggcgtaaag	catttttatct	ggatccgatc	1920
ggcatagaag	atatgtcttt	gaccgctacc	aatccggaag	atatcaacac	aactcagttg	1980
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<210> 1971

<211> 555

<212> DNA

<213> B.fragilis

<400> 1971

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actcttgagg	catgccccga	atttcaaaaa	gggcatacta	tattgctcta	tactcaatg	180
aaggatgaag	tgcagacgca	cgccttcatt	gagaagtggg	gccggctcga	agaatcata	240
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gccatagggt	cgtatggcat	tgccgaacca	accggagcgc	cattcaccca	ttacggaaca	360
atagatctgg	ctgtgattcc	gggtgttgct	ttcgatcggt	acggacatcg	tttaggcgcg	420
ggcaaaggat	attacgaccg	tttattacct	caaattccgg	ctcccaaagt	cggcatttgt	480
ttcccgtttc	aattgataga	agaagtaccc	gcagaagcat	tcgacttcgg	tatggatact	540
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<210> 1972

<211> 1485

<212> DNA

<213> B.fragilis

<400> 1972

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attatcaacg	gctcttcgaa	caagttgaat	gctttgctgc	gcattgtcga	tgaccagtat	180

gtggacaccg	tcaacatggc	cgaccttggt	gaaaaggcaa	tgccacagat	tctggcagag	240
ctggatcccc	actctactta	cattccggca	caaaacctgg	aagaagtgc	atcgggaactg	300
gaaggcagct	tcagcgggat	cggatatccag	tttaccatcc	aggacgacac	tatccatgtg	360
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accttccatt	acacggataa	taaccgcgat	aagttgaaga	agtacgaaga	cgaagaatca	1380
ctcttaaact	atatgcgtcg	tcagggactg	gtcgaacagt	tcatacgcta	cgctgacagc	1440
aaaggggtga	aacgaagaat	catcctgatt	cagaaatcat	attaa		1485

<210> 1973

<211> 1830

<212> DNA

<213> B.fragilis

<400> 1973

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tcattgttcag	accatatttc	cgatttcgtct	gattttatctg	tacagacacg	tacaatttga	180
tctccggaag	gagttttctac	ttcaaatccg	gatctgatta	gtgatttgga	acatcaatct	240
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tctatgtcag	aagaaactgt	atcggatatc	aaaaaagaag	atggatggac	tatgcttttt	360
catactttta	aggcattaaa	tgagtctccc	aacagcaatt	atctctgctt	ctataatgaa	420
ttgacaggag	ttattaaggt	gttttattat	ataaaaaatg	ctcagggaaa	taacggattt	480
cagtggagaa	tcagcactgc	caatggggta	gggagttagt	tattggcttt	gaacagttat	540
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caaacaccaa	ttaatggatt	gacaccggga	tggaatggat	ttgagtttga	agttccttat	660
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tataactata	agggcaaagt	acacaatgtc	tctatatccc	ggaattataa	ggtccaatat	1740
gtgcatgatc	ctgctacaga	tgtaaaaata	cttggtactg	ccggaactaa	aaaagtggta	1800

1973
 1830
 DNA
 B.fragilis
 1973

attgtgaata actatcccca atttgaataa

1830

<210> 1974

<211> 447

<212> DNA

<213> B.fragilis

<400> 1974

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gttgtagccg	atatcattat	gccacctttg	gggttactca	ttgggggagt	gaactttacg	180
gacttgaaat	gggtaatgaa	agctgcggaa	tatggggctg	atggaaaaga	gacggccgct	240
gctgtgacat	tgaattacgg	caactttctg	caggcgactt	tcgattttct	tatcattgct	300
ttttctatat	tcttatttat	taaactgatt	acaaagtga	ctcagaagaa	agctgaggca	360
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cgtgatattt	tgaaagaaaa	gcagtaa				447

<210> 1975

<211> 417

<212> DNA

<213> B.fragilis

<400> 1975

aagcaaggcg	taccatcgga	agtgggggat	gtgccagtcc	gagcacatgt	gtttgcgaag	60
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cagatttctt	ttagagcgga	agacggggct	caaaccgcg	accctcagct	tggaaggcta	180
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gaagtcgaaa	gacagcagat	ttacagtctg	ccccatttgg	ccactctggg	atttgccctt	300
ttgtttgctt	ttgagtcctt	ttgctttctc	ttaagtaggt	ttgtttctca	attgcatgac	360
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<210> 1976

<211> 201

<212> DNA

<213> B.fragilis

<400> 1976

agtcatttat	tccgattttac	gatagaaaat	ttagttgttg	aatagcaaa	tatctctttc	60
attaccgtat	atgtattatg	gggggagaaa	ctggaacttt	cctttgatat	ctcgtagaaa	120
accaagatat	tgtggccttt	ccttcttcct	tcgggaaatg	cttgttttta	ttctatgtta	180
aagcaagtgt	tctgtattta	a				201

<210> 1977

<211> 252

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (58)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 1977

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gaaaacatct	cctatacttc	cgaccaaggc	aagacctatg	atttcaatac	tcgagacaaa	180
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atacatgttt	ga					252

<210> 1978
 <211> 2091
 <212> DNA
 <213> B.fragilis

<400> 1978

aaagcattac	ttttgctcta	cttaaaaagt	aatcaaaagc	cgatgattaa	aaagatatta	60
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atgattgccc	gaaacgcggt	atactttgag	gactatgtcc	tttccattca	gtattttaat	180
caggtgatta	atgcgaaacc	ctatttgat	gaaccctatt	ttttcagggg	acttgccaaa	240
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<210> 1979
 <211> 1950
 <212> DNA
 <213> B.fragilis

<400> 1979

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<210> 1980

<211> 1266

<212> DNA

<213> B.fragilis

<400> 1980

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atccggacaa	aagaatatatt	cttcctacca	tggatcgata	aattatttca	gtacacaaaa	360
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ccataa						1266

<210> 1981

<211> 348

<212> DNA

<213> B.fragilis

<400> 1981

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agcatgaaat	cgcaataccg	gatcaatgaa	cagatccgtg	cgaaagaagt	ccgcattgta	120
ggtgatgatg	tagaacctaa	agtatatccc	atttttcagg	ctttaaaatt	ggctgaagaa	180
aaagaactgg	atctcgtgga	gattttctccc	aatgcccaac	cacctgtttg	tcgtattatt	240
gactactcta	agttttctgta	tcagttaaag	aagcgtcaaa	aagaacaaaa	ggctaagcag	300
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<210> 1982

<211> 225

<212> DNA

<213> B.fragilis

<400> 1982

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cattctat	ctcctttgga	aaatcctg	cagatcaa	aattacgcag	gacgattgcg	180
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<210> 1983

<211> 441

<212> DNA

<213> B.fragilis

<400> 1983

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actaaatgga	tcacaggccg	acagattgaa	gctgctcgta	ttgcagtgac	aagatatatg	180
caacgtcagg	gacagatttg	gattcgtatt	ttcccggata	aaccgattac	tagaaaacct	240
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ccaggtagaa	ttattattga	agctgaagga	gtatcttacg	agatcgcgaa	agaagctttg	360
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<210> 1984

<211> 735

<212> DNA

<213> B.fragilis

<400> 1984

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tatcttaatg	caagacttgc	gaaagcaagt	gtatcaagaa	tcgtaattga	acgtacgctg	180
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caggaagttg	ataagttgaa	ggaagagttg	aaaaaggtta	ccgacaaaga	tattcagatc	300
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cgtcaggtag	aaggtaaaat	tgcctatcgc	cgtgccatta	aaatggctat	cgcaaatata	420
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gagagtggtc	gtggaaacaa	tggtggaaac	aacggcgggc	gaaagaactt	caaaagaaag	720
aaaaataatc	gctaa					735

<210> 1985

<211> 633

<212> DNA

<213> B.fragilis

<400> 1985

aaaataatgg	aagttaacgt	atataacatt	aaagggtgaag	acactggaag	aaagggttacg	60
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atctcaggat	taaatactta	cagagtattg	aatgctgggg	ttgttgctgt	tactgaaagc	600
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<210> 1986

<211> 273

<212> DNA

<213> B.fragilis

<400> 1986

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gtatatgtta	ccgaaaatat	ggtaggtcac	aagttgggtg	aattcgctcc	aactcgtaca	240
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<210> 1987

<211> 840

<212> DNA

<213> B.fragilis

<400> 1987

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gaaggacgtg	cttcgggagg	tcaccaaga	tctcgttaagg	gattgtacgc	taagggactt	780
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<210> 1988

<211> 294

<212> DNA

<213> B.fragilis

<400> 1988

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ggtgaagccc	tttataatgt	tacggtagtt	gatgtgaata	ctgtgaagta	tgctggcaaa	180
aataagagcc	ggtatacaaa	agcaggatc	atcaatggtc	gtacgaacgc	ttttaagaaa	240
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<210> 1989

<211> 195

<212> DNA

<213> B.fragilis

<400> 1989

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atataatggac	cttttttttaa	tgaacgactc	atagtttact	caattaatca	gattactttt	180
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<210> 1990

<211> 270

<212> DNA

<213> B.fragilis

<400> 1990

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ggtaagtctg	ttagcaaaac	gaagaagtac	catgctcacg	atgaaaagaa	tgaatgcaat	180
gtaggtgata	ctgtacgcac	catggaaact	cgctcctttga	gcaagactaa	aagatggaga	240
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<210> 1991

<211> 432

<212> DNA

<213> B.fragilis

<400> 1991

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atgcgtctcg	tggctgacat	gattcggtgg	atggaagtga	acagagcact	tggcgttttg	180
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<210> 1992

<211> 734

<212> DNA

<213> B.fragilis

<400> 1992

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<210> 1993

<211> 1203

<212> DNA

<213> B.fragilis

<400> 1993

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<210> 1994

<211> 186

<212> DNA

<213> B.fragilis

<400> 1994

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atttgttttg	ccatgaatca	ttattatctg	ttaaagttat	atcccgtcat	ccaattgttt	180
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<210> 1995

<211> 1152

<212> DNA

<213> B.fragilis

<400> 1995

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ggtttttaaaa catctcaaga aagagcaaaa tcttatttgg aaatttgtaa atcaataatt 1140
cggaaagtat ga 1152

<210> 1996
<211> 1224
<212> DNA
<213> B.fragilis

<400> 1996
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cctgggcatc cctataaaaac attgtctttt ttatgcttat tcactatggg ttttcattta 180
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atacaactta tttcgttgtg cattattata tcctatatta agatctatgt cggatttgat 360
gtttttgtga agtcatttat ctggataatg ttaattatgg gtgtcgggtg aaccttgacc 420
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gtaattcgtt atgctggttt ctttgacgaa ccaggtaact tctctttgtt ctcaattttt 600
gccttaatat tgaataagggt atattttaat gataaaaata aggaactctt acttatattg 660
gtaactatat tcactttctc aatagcattt tatgtaacaa ttttttttta ttttttattc 720
ttttatgtga ctaaaaaaga tatgaaatat gtaccattaa taatatccgt agtttttatt 780
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gaagtggagg gttctaattg ttttgctgtc ttgcacgat atgggtgttat tgggtcgttt 1020
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cgaaaattat tttttaaaat atatattgtg atacttttga ctttttttta tagaccagaa 1140
ctttcttctg ttatggtact tttagtcttt tatatgctta ttgattatat aaaaagtaag 1200
aaatatattaa attgtaagaa ctga 1224

<210> 1997
<211> 282
<212> DNA
<213> B.fragilis

<400> 1997
ggaaaaatga ctaaagcaga tattgtaaac gaaattgcaa agaacaccgg tgttgacaaa 60
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gacgagaatg tttacctccg tggatttggg agcttcgtcg taaagaaaag agctcaaaaa 180
accgctcgta atatttctaa gaatacgact atcatattc cggaacacaa cattccggcg 240
ttcaaaccag ctaagacatt caccctttcg gtaaaagaaat aa 282

<210> 1998
<211> 930
<212> DNA
<213> B.fragilis

<400> 1998
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attattatag ttgataactg tagtacagat ttaacttgga gtattttgaa tacatgggca 180
agcaaagatc atagaattaa aatatatcag aataaaaacta atataggacc tgttttaaat 240
tggaatgaat gctttaagca tgcttcaggg gagtatataa agattctttg gtctgatgat 300
tggatggcat tagattttat tgaaagagca gtgaatctaa ttgatgagaa gtcagcgttt 360
gttatatcaa atcataagat cgtatcagaa aatgggtattg tagataatgt aaagtataag 420
aaacaaaaat atacaagaaa agagtatctg tataatatat tttttcaaaa tattgagaaa 480
ttcccattat ctccctggatg tgctcttttt agaacgaaag atttgaatga taactttgtt 540
atagatatct ctaatactga tggactggat tcaaaaaaaa atgggtgcagg taatgatcta 600

ttgatttttt	taaatatcgt	gctaaaattat	gctcatattt	caattttaca	atatgatggt	660
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gagtgggcta	aagtctattt	tattcaaaaa	aaactgaata	aaacttatta	ttctaataata	780
aaaaaaataa	tggtttggca	acaaataaat	aaaggtaata	agatttatca	taatttatat	840
gtgtgtctga	aatataatta	ttggatgcca	ctctcatttt	gcatcattat	cttgggtgga	900
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<210> 1999

<211> 966

<212> DNA

<213> B.fragilis

<400> 1999

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atgaataaatt	tggtgtccat	ttttataacct	acttataata	ggtgtaattg	tttagatact	180
gttttagatc	gtgtcattag	ttctgtaaaa	gaatatgatg	tttgtgtaca	agtgtatgat	240
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ttttataaga	aaatagaatc	ttacttaaaa	caatgttttg	attttattgt	cctttctgtt	480
gattcgacat	ttaaaacaac	tgtttatgta	gagaaattga	gtgctttctc	ttttttatgg	540
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aatctttttt	ctttaagaaa	tatttgggtct	ttatataggc	gatataattt	taagagttaa	900
agtagtatgc	gggtttttgtc	aaatattaat	aagtttaaat	tttgtgttaat	tagtagattg	960
caataa						966

<210> 2000

<211> 951

<212> DNA

<213> B.fragilis

<400> 2000

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acactgcggg	gtggaggaat	tatcttctac	ttgggtgcat	tggcttattt	tctgacaaat	180
cagtttgagt	acccttgggt	tatgttggct	ctcactctgg	tgacgggtgat	cagctttgta	240
gatgatatcc	gctccatata	acaaggactt	cgtcttgttt	ttcattttac	ggcgatgggc	300
ttgatgttct	atcagtggga	gttgtttact	cttccttggg	ggactgtagt	tgtggctttg	360
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<210> 2001

<211> 963

<212> DNA

<213> B.fragilis

<400> 2001

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cagtcctatt	ttgatatcaa	taccgggtctg	actcaaaaga	tatttgactt	ctttttggag	300
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<210> 2002

<211> 762

<212> DNA

<213> B.fragilis

<400> 2002

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tattcaaatt	ttgaatatat	tattgttgat	ggaggtagta	cagatggaac	attagatata	180
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gatgcaatga	ataaaggatt	ggctatttgt	aaaggtgaat	ggattaattt	tatgaatagc	300
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gttggttctt	tgtgggagtc	tttgggggtt	tctggaaata	atttgaaatt	atttaaaaaa	660
gaagagaaat	tgttgggtta	tagaaatttc	aatactgttg	aaatctattt	tattcgtata	720
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<210> 2003

<211> 720

<212> DNA

<213> B.fragilis

<400> 2003

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<210> 2004

<211> 1215
 <212> DNA
 <213> B.fragilis

<400> 2004

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<210> 2005
 <211> 1362
 <212> DNA
 <213> B.fragilis

<400> 2005

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ctcctgctcg	cctcgggctt	tgcttcggca	tccgaaatcg	ctttcttctc	actttcgct	180
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tatcatcgat	acgaatttga	agtgtgtggt	atggatagcc	ggagaatcct	gaaagtgaag	1320
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<210> 2006
 <211> 195

<212> DNA
<213> B.fragilis

<400> 2006
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<210> 2007
<211> 1113
<212> DNA
<213> B.fragilis

<400> 2007
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gaacttcctt ggagggattc ggcagatccg tatgtaatat ggatatacga aatcattctt 180
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<210> 2008
<211> 471
<212> DNA
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<210> 2009
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<212> DNA
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<212> DNA
<213> B.fragilis

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<212> DNA
<213> B.fragilis

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<210> 2015
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 <212> DNA
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<210> 2016
 <211> 765
 <212> DNA
 <213> B.fragilis

<400> 2016
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<210> 2017
 <211> 1581
 <212> DNA
 <213> B.fragilis

<400> 2017
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<210> 2019
 <211> 876
 <212> DNA
 <213> B.fragilis

<400> 2019						
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<210> 2020
 <211> 372
 <212> DNA
 <213> B.fragilis

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aagacactgc	ctaacgtata	tcacccgaaa	gaacgtccgt	ggataaagat	ggagaatgct	300
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 <212> DNA
 <213> B.fragilis

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 <212> DNA
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 <211> 624
 <212> DNA
 <213> B.fragilis

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<210> 2024

<211> 1008

<212> DNA

<213> B.fragilis

<400> 2024

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<210> 2025

<211> 1590

<212> DNA

<213> B.fragilis

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gtgatggatc	ggctgactcg	ccaatatgac	ggataccggt	tcaccaaaaga	cgaggaattc	840
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gatataaaca	atccgatacc	catgatttat	cagagcggat	atctgacgat	taaggactac	1080
gacgagcgct	tccggatgta	cacgctgggg	ttccccaacg	aggaggtgaa	atatggtttc	1140

ctcaacttcg	tcagtcacct	ctacactcct	atagcccaga	cagacacctc	gttctatatac	1200
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ctgaacgaca	gtgccgaggg	tgccttgagg	cagattgatg	aaaagggata	tctgctgccc	1500
tatcaggcgg	acggacggaa	agtagtgaag	gtgggtgtag	ccttcgagaa	ggaggaacgg	1560
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<210> 2026

<211> 207

<212> DNA

<213> B.fragilis

<400> 2026

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aataggtatt	tagatccggg	tggtatcttt	ggtagtacaa	cacgtaaaat	acagaagaaa	180
atgttatctt	tgtattttacg	agtataa				207

<210> 2027

<211> 315

<212> DNA

<213> B.fragilis

<400> 2027

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cagataaacg	acttttttac	ccggatcgcc	ctgtttttacg	aagatctgca	acggcgccctg	180
aacctgcgca	tcacttatcg	ctgcttctgc	cgctggctct	gcacccgcta	cgagttcgag	240
tcacgctatc	acgaccgcca	caaactgtcg	ccttgcacga	tactggggta	ttttaagaga	300
gaaagaggag	gataa					315

<210> 2028

<211> 918

<212> DNA

<213> B.fragilis

<400> 2028

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ttgctgggtg	agcccatccg	tatcgtcgag	attctggaga	gtgaaggcaa	tcagttgaat	180
gaaacggata	aattcaaccg	tgtcgacata	aaggcgcgta	acagcaaaga	cgagatcatt	240
attgtggagg	ttcagaatac	ccgtgagatt	tattatctgg	aacgtattct	tttcgggtgt	300
gccaaaggcg	tcacggaaca	tatcgagttg	ggtcagctct	actctgaggt	taagaagggtg	360
tattccatca	gtatcctcta	ctttgatata	ggtcgtggta	ctgattacct	ttaccacggt	420
cagaactctt	tcgtgggtgt	ccacacgggc	gattttctgg	aggtgagcac	caaagagaag	480
gacgccatcg	tccgtaaatt	gcctgccgag	atctttcctg	agtatttcct	tattcggtgtg	540
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ggtgtgatcc	atcccgaac	caaggctccg	ggactagagg	aagcccgtcg	taaacttgct	660
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ggtcgccaag	gagggcttgc	cgaaagtcgt	atgggagaga	agcaagcgaa	tgccccggag	840
attgaagcat	tgaccctgcc	ggtcgaaacc	atctgtcagg	tgacaggatt	gtccgcccga	900
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<210> 2029

<211> 225

<212> DNA

<213> B.fragilis

<400> 2029

atccgggtgg	tatcttttgg	agtacaacac	gtaaaataca	gaagaaaatg	ttatcttttgt	60
atttacgagt	ataagaaaaa	taaagaagag	tgccaattgt	tgcatccctt	acatttttga	120
accaagtgtg	agaatctaaa	aaataattgt	gtacatttgc	aaaagactaa	cttcaatgcc	180
ccatggatac	accgatcaat	gccccgctta	gaaaactccc	gatag		225

<210> 2030

<211> 1530

<212> DNA

<213> B.fragilis

<400> 2030

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atagacagtg	aggacaaaat	tgccgaactg	cttgccggag	catatcccga	ggccagttat	180
tttgcttttt	tagaagcgcg	tacggacaat	gtgggagaaa	ggactaacgg	cattcattcg	240
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ctaaactatt	ggaatgcatg	ttatgccgga	atcgctcagg	ctaatacagg	gtagagatta	360
cttagtaaat	accctaaaag	tgaccgggta	aaagctttgt	atggagaagc	gtttctcttg	420
cgtgcttatt	tgcatttcat	gttggtaaac	atctgggctg	agccttatgg	aactaccaa	480
tcggcaacag	ccccgggtat	tccttattta	acccggcccc	aaaaaatgc	gttgggtggc	540
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gcctacgctt	ttgcttcgcg	tttttacctg	attaagggag	aatgggacct	ggtggtctca	720
tactccgatt	atgtgctcgg	tggtgaccca	aagccggtct	taagaaactg	gcagaagtac	780
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cagacaagca	gtgaaaacta	tcaaactctat	accccatctt	acggaatgag	tatcaaccaa	1320
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agatggtttg	atatacgccg	cttttatata	tcggtaaaac	gcacttcaaa	gtataaattc	1440
tacagaccat	tggaaaaaga	agattccaga	aaacttttgc	aaataccggc	agaagccatt	1500
aaccggggac	tggttcctaa	tccccgatag				1530

<210> 2031

<211> 1089

<212> DNA

<213> B.fragilis

<400> 2031

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ataagtgcgt	atcagctccc	ggtattgccg	gaaccttcgt	ataaattctc	aaggaacgga	180
gagagtcttg	taaatgtact	tgagtgtgga	tttttgaaat	ctcctatcga	tagaattttt	240
tcggaataca	tgaacgaagc	gcgtatgagt	acaaaaaggg	attatgacga	ggcactccgg	300
atttatcatg	aagggaactt	cgggttaaaa	ccacaaaaag	aggtttctgc	ttcttctaaa	360
catctgaagg	atagagataa	gattctgaaa	gatattgatg	cttggtttga	aacttcgca	420
cgtattgccg	cgttgggagc	gaatatccct	tcttacgaac	atagaaacag	ggaagccgtg	480
aaaggccttg	caggatatgt	aggaaatggc	ataggagaca	aagatatctg	ttatgtggat	540
gaaaggggaa	ttgctgtagc	tgaagtttat	aaatatgcta	ttatgggagc	aatatatctg	600
gacaagatac	tcaacataca	tttgagttag	caaatatggg	aaaataacga	ggtacttgta	660
cggaaatgat	tgaccagct	cttgcccggt	cacaactata	cggagtggga	acatcattgg	720

gatctggcat	atggatatta	cgacttcttg	aaaacattgg	cccagtcgga	tggcttaccg	780
gccttaaaag	attgtcatct	gcgtatctcc	cgctcctttg	tcaaagggcg	cgctttgatg	840
acgacttccc	aatatgatga	aatgcggttg	caagctgata	ccatcaggca	agaactgtca	900
cgtgtagttg	cgataagggc	tatgcatctg	ctggtcggtc	cgaatacatt	ggccaactta	960
aaggaaaatc	ccaggcgggc	gttccgtctt	ctttctcagg	cttacggctt	gatctatgct	1020
gcacagtttg	cacgcaatat	ggaaggaaaa	tcattgtctt	caccacgggg	ctggaaggat	1080
cgacagtga						1089

<210> 2032

<211> 204

<212> DNA

<213> B.fragilis

<400> 2032

gaaagaaata	acgagcaaata	acagacttct	tcgaaaaaag	tatctgaaat	tcacttttct	60
aataattgtt	ttcatatgct	tgattttatt	cttgaatcat	cttctataat	actctatcgg	120
ggattaggaa	ccagtcctccg	gttaatggct	tctgccggta	tttgcaaaag	ttttctggaa	180
tcttcttttt	ccaatgggtct	gtag				204

<210> 2033

<211> 1035

<212> DNA

<213> B.fragilis

<400> 2033

ttcaagaata	aaatcaagca	tatgaaaaca	attattagaa	aagtgaattt	cagatacttt	60
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gcatccctat	ctgcccggag	tgtgggtggag	gcgggtgaga	cagagcgtga	gaagacagag	180
ttggataaat	ggatactgga	tacattcacc	cgctccttacg	ggattgaggt	ggaatatcgg	240
tgggacaaaa	atgcagtgca	gaatggaagc	tatatctacc	cgccggaagt	tgccaatgta	300
aaaagtgtgc	tcaataccat	caaaactcta	tggattgacc	tctatacagc	tcttgaattg	360
ggaggagata	agtttctgtt	gggaaaaaat	cctcttaaaa	tatacatgta	tggaggaaga	420
aatgtagatg	gaaacggaat	ggaactatta	gataatcttg	aagcaacgac	taatgagatg	480
tttctatata	acgtcaacga	gtttaatccc	caagatgagg	ataaggtctt	cattctgatg	540
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aaattcctat	ccatcagcag	aaacaagtat	atcgaatcga	ctaaatctat	tgcatggatt	660
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ggtttcttta	cctttcattc	tctcctttca	cctgaaaaag	attttgcgga	gataatcagt	780
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tataaagaat	tggtagaaaa	gcaagcattt	gtagaagact	acttttagtaa	agaaataaag	960
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aataagaaag	aatga					1035

<210> 2034

<211> 1038

<212> DNA

<213> B.fragilis

<400> 2034

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agaaaggaac	ttgtaaatgc	tccttatggc	tgggctgtca	cctattttcc	ccgaacggat	180
tctctattgt	ttacaaatgt	gaatgaattg	ataactcttc	ccaaagggat	atttgaagac	240
aagaacaaat	atggatatgg	tggacactat	ttcttaattga	agttttccga	aaatgggac	300
gtagagacgg	tggccgacta	taatgaggag	agcctgacga	aaaagctgca	aagtggagtt	360
gaagtgagcc	aaaacacatt	tacgcagtta	agttttacta	cttataccta	tctgcattct	420
ttggtgaatg	accgctttac	cggctcttcg	gattttcttt	atacgggaaa	agatgttgat	480
ggcaacctga	tattttaaacc	atcttcatat	atagagcctg	caagggaata	tatcattttt	540

acaaaattga	agaatgatga	aagttggcag	gaggacatcc	aaaaatcata	tgacaataaa	600
ttgttctttg	agaagatgaa	aaatcctcag	ctaatacttc	gtagggcggg	acgagtttat	660
ttccatagcg	atgtacagat	gaatgtcact	tatggagggg	atggaagtgt	gaatggaaaag	720
caacctccag	aagtatatca	gcgttatcgt	ctgtttcttg	cgagagatta	tttcgcttct	780
cagggatggt	tgggaaataa	agtaaaagga	ttgggttcgg	ggtatgtggg	aacagccgcc	840
ggtctgactt	tcaagcccgg	tatacgttat	agtgaacgt	atatcttcta	tgattttcgt	900
agagaaggag	agagatttgt	ttgcgaacta	gtgaaagtag	ttgaccctta	cagcaaaaaa	960
atacattggg	tcagcaagca	tcttgctccc	tatggcgaag	agagtggagt	tatagctgaa	1020
atccgggatg	aaatttaa					1038

<210> 2035

<211> 684

<212> DNA

<213> B.fragilis

<400> 2035

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ataataagtt	gtctgctggt	tgtatgcagc	tgcaacacgg	taagagaaga	ttttgtagta	120
aatgaagatt	atgagaagtt	gtttccatcc	aaagagatag	agaaacctga	aaacaagcgc	180
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ggtaccgaaa	ctccgaatgg	tgctgaccaa	tataaaataa	ccctgatgtg	ttcgtttcag	300
gaaaaacgct	gggatggtaa	tcttactaaa	gatgtcagtg	ctcagtacaa	agtgaatat	360
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ggagaggatg	ctgacggatt	aagacccaat	gtaatgttta	acggcgagaa	gttggaaatt	480
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tcatccaata	taagagcaag	tatcacagct	gtctccactg	atggactggg	cgaattccc	600
agcctgcaga	cagagcaata	tcaaatgag	gaggggatta	atccactgag	gtatccatat	660
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<210> 2036

<211> 1941

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (11)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2036

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ttggcaatgg	tgcgtcacgc	cgtaaccaag	agttcacatt	ttattgctga	agcatccaat	180
gtggtacagg	cttttcgtgc	caatgagact	ccttacgtag	ccagagaaaa	catttatcta	240
ttgaagaata	aagacgatcc	gatgcaactg	cccggggtag	cattgacaca	tggggggata	300
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aggcaactga	gtgaacataa	catacgcgct	ttcggattta	ctgaaatacg	atatgccgat	420
cgcagcatga	atccttttca	aggctatgga	atacaatacg	acagaggtaa	tcaggtcttt	480
tccaatcccc	tgatttttga	aaagctggcc	aatgaaggag	atacttattt	ttctttaacc	540
gaacgttatg	aaaggggagt	gacattatcg	ggcagcgcta	catacggata	tgccgggaaa	600
tacattttca	atggagtatt	caattacgaa	ggggctaata	ctgcaggtaa	atatagccgt	660
tcccgtggc	tgccaacctg	gaatatagga	gccaaatgga	atctggatca	ggagaagttt	720
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tccaatactt	ttaagtataa	aaattgggaa	ttctcgtgtt	ttgttaccat	gcaggcagg	1500
aataaaattc	ggatgaatcc	ttcttttcat	cggcatttg	ccgatcttaa	tgtattttcc	1560
aaggagtact	acaaccgttg	gttgaatccc	ggtgacgagc	ggaaaaccaa	tattcccgt	1620
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tcgttgggat	atcgtttacc	tcaaagattc	ctttcacatc	ttaaaatcaa	acagatgaac	1800
gtaaagggtga	atgtgacgaa	tccgttcctt	atctattcag	acaggaaaact	gaatgggcaa	1860
gatccggaat	tttatagatc	aggaggggtt	tcattgccta	ctcccaagca	atatacgatg	1920
acattgaatg	ttgaatttta	a				1941

<210> 2037

<211> 741

<212> DNA

<213> B.fragilis

<400> 2037

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gatatagaag	atattcaggt	attgaaagac	gcctcggcaa	cttccatcta	tgggtgcccg	180
gcattgaacg	gagtgatcgt	aattaccacc	cggtcgggta	aaagaaatgc	accgaacaga	240
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cttaattctc	aagagagtat	gtctgtttat	caagagatgg	gcagaaaggg	atatttctct	360
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aataccattg	atccggctac	cggtcataat	tatctggaga	atacggatga	tgtcaaaagg	480
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gcttccatcg	gtttttatga	tgacagagga	tggactttgg	ccgacaatgt	taaaagaatt	660
acggccaaca	tcaagaactc	tttttactgg	aacgaagata	agataaaggc	tactatatcc	720
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<210> 2038

<211> 513

<212> DNA

<213> B.fragilis

<400> 2038

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gggctgaagc	gactgaagta	tcgcggatac	gacagcgccg	gggtagcgat	catcaacgac	180
aaccagctgt	taaatgtata	tcggccgcaa	ggcgaaacgt	tcgtgtttgc	ttctgacggc	240
attatcgaga	ctcccaccgt	tatcctccaa	gaatttccat	cccaaagtta	catcttccgt	300
aacagtacct	atacagaggt	accggtttat	tccttttctt	ctttccgccc	gatgcatcag	360
ttttgtaaga	taacggcttc	tcgtgcagtg	aggccggaaa	cattaaagtg	ctctgattcg	420
ttgataatta	gagaggcttt	ttctgacaca	ctgttgcaag	gcgggaaaga	tgaagcgacc	480
gggataaggg	aagagagtgt	gactatggag	tga			513

<210> 2039

<211> 339

<212> DNA

<213> B.fragilis

<400> 2039

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aagtactggc	ggttaacggc	gaaatctata	accaccgtga	catccgcgcc	caatatgccg	300
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<210> 2040

<211> 570

<212> DNA

<213> B.fragilis

<400> 2040

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<210> 2041

<211> 663

<212> DNA

<213> B.fragilis

<400> 2041

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acactgaaag	agttgcgcca	tccacaactg	gcaggcttcg	atctgaacag	ccgtttcgaa	600
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<210> 2042

<211> 2325

<212> DNA

<213> B.fragilis

<400> 2042

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<210> 2043

<211> 645

<212> DNA

<213> B.fragilis

<400> 2043

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<210> 2044

<211> 633

<212> DNA

<213> B.fragilis

<400> 2044

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cacaaattcg	tagccctctt	cggctgtggc	gattcagact	cttacagtga	caccttctgc	420

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<210> 2045

<211> 1461

<212> DNA

<213> B.fragilis

<400> 2045

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<210> 2046

<211> 210

<212> DNA

<213> B.fragilis

<400> 2046

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aaaaatcttt	acctaattga	aaatcacttg	aaacttttta	ataccttaaa	tctttatcta	180
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<210> 2047

<211> 1023

<212> DNA

<213> B.fragilis

<400> 2047

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<210> 2048

<211> 1350

<212> DNA

<213> B.fragilis

<400> 2048

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<210> 2049

<211> 2442

<212> DNA

<213> B.fragilis

<400> 2049

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<210> 2050

<211> 306

<212> DNA

<213> B.fragilis

<400> 2050

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ggtaaaaaac	tccaaaacgg	aacaagctcg	tggcgcttct	ttgaccagat	gctatacgaa	180
gacaacgtag	taagaactcc	gggagtcgga	ttcggcccca	gtggagaagg	atacatccgc	240
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<210> 2051

<211> 1341

<212> DNA

<213> B.fragilis

<400> 2051

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tttgccctgc	tgatgtatgg	acagatcacc	cttgaagagt	gtcaacggaa	aaccggggaa	180
aactatccgc	tggttaaggca	gtatggattg	atagagaaga	caaaagaata	taatctggcc	240
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gaggttacgg	aattgcctgt	acaggttccc	ggagtagata	tcaaaggttt	gccgaaagac	360
cagtatcagg	tgatgctgga	actgaaacag	aacatttggg	acggcgggtga	gattcgttgc	420

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<210> 2052

<211> 1296

<212> DNA

<213> B.fragilis

<400> 2052

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acacaggaaa	acatctccta	tacttccgac	caaggcaaga	cctatgattt	caatactgca	360
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cctgccaagt	ggatcatgac	tgcaaggcaa	tacgtgctga	atatctacac	agagaaccga	1260
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<210> 2053

<211> 1155

<212> DNA

<213> B.fragilis

<400> 2053

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cacggttaagt	cgttcggtta	cgaaaagccc	gtggcagggtg	aagtagtggt	caataccgcc	180
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acgtatccgc	tgggtgggcaa	ctatgggtgta	cctcctttta	gcatagagcc	caacggactg	300
gctacgttta	tggagagcga	acgcatccat	gccgaagcta	ttatcgtaag	cgattactca	360
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<210> 2054

<211> 696

<212> DNA

<213> B.fragilis

<400> 2054

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cagaaaggag	cgattctcct	tctggacaat	tatgactctt	tcacctataa	cctgctgcat	180
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cccggatgcc	tggagatcac	ggccgaaagc	cgggagggac	aatcatggc	attacggcac	600
cggacgtacg	acgtacatgg	cattcagttt	catcccgaat	cgggtgctgac	tccacagggg	660
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<210> 2055

<211> 294

<212> DNA

<213> B.fragilis

<400> 2055

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gtacatctgt	tagggccaaa	agtccaaggg	ccattctatg	cgccaattga	atcggagaag	180
aaagataaaa	agacagcaat	aacatcta	aatcaaatag	ttacaaataa	caaccaacaa	240
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<210> 2056

<211> 1497

<212> DNA

<213> B.fragilis

<400> 2056

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<210> 2057

<211> 1089

<212> DNA

<213> B.fragilis

<400> 2057

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tatgacagca	cgccggaatg	tgacgtgacc	aaattgatgt	tcctcttagg	acacggactc	1020
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<210> 2058

<211> 1161

<212> DNA

<213> B.fragilis

<400> 2058

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<210> 2059

<211> 423

<212> DNA

<213> B.fragilis

<400> 2059

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<210> 2060

<211> 903

<212> DNA

<213> B.fragilis

<400> 2060

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<210> 2061

<211> 1206

<212> DNA

<213> B.fragilis

<400> 2061

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<210> 2062

<211> 273

<212> DNA

<213> B.fragilis

<400> 2062

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ggaggattcc	tgtattggaa	atacgtaggt	tgcaccagcg	gaacttgtec	cattacctct	180
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aaaacagaca	gtaccacctaa	aaaaacaaac	taa			273

<210> 2063

<211> 252

<212> DNA

<213> B.fragilis

<400> 2063

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
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<210> 2064

<211> 315

<212> DNA

<213> B.fragilis

<400> 2064

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gaaggaggta	gtagggtgtg	tgtatccggt	agagaggtag	ttcggttggg	gggtgaattg	180
atttcaccac	aaattgaaac	agagtcctac	ggagttttct	gttattttct	tctctgtgga	240
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<210> 2065

<211> 1149

<212> DNA

<213> B.fragilis

<400> 2065

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<210> 2066

<211> 3255

<212> DNA

<213> B.fragilis

<400> 2066

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<210> 2067

<211> 1188

<212> DNA

<213> B.fragilis

<400> 2067

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<210> 2068

<211> 942

<212> DNA

<213> B.fragilis

<400> 2068

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<210> 2069

<211> 1518

<212> DNA

<213> B. fragilis

<400> 2069

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<210> 2070

<211> 855

<212> DNA

<213> B. fragilis

<400> 2070

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attcccctcc	ggctgggcga	ggacgctttc	accaccggag	aaatatcaga	agggaagca	120

gaaaaactga	tccggctgat	gaaagcctac	aagcaactga	tgaaaatatt	cgaagtttctg	180
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acggacgcta	aataa					855

<210> 2071

<211> 996

<212> DNA

<213> B.fragilis

<400> 2071

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acaacagatt	tcattcttatt	tctatgcttc	agtctgatga	ctgtttatct	gggagttttg		180
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<210> 2072

<211> 498

<212> DNA

<213> B.fragilis

<400> 2072

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gccgactacg	aaaaccattc	caaagagtgg	aagtatctgg	gtgacaaacc	ggctattgtc	240
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gaacccagag	tcaatatggg	agctttatcc	aaggagcaat	taaaaggata	catcgataaa	480
gtattattga	aacaatga					498

<210> 2073

<211> 846

<212> DNA

<213> B.fragilis

<400> 2073

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<210> 2074

<211> 717

<212> DNA

<213> B.fragilis

<400> 2074

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<210> 2075

<211> 798

<212> DNA

<213> B.fragilis

<400> 2075

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<210> 2076

<211> 1167

<212> DNA

<213> B.fragilis

<400> 2076

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<210> 2077

<211> 222

<212> DNA

<213> B.fragilis

<400> 2077

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agattaacac	agattattta	tcgtgttgat	tcatgggtata	aaagaatcta	tgcaaagtgtg	180
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<210> 2078

<211> 810

<212> DNA

<213> B.fragilis

<400> 2078

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gtcattgccc	atcgcggtat	ctggaaaacc	gaagggtctg	cgcaaaacag	tatcgccgcc	180
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<210> 2079

<211> 1884

<212> DNA

<213> B.fragilis

<400> 2079

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<210> 2080

<211> 1059

<212> DNA

<213> B.fragilis

<400> 2080

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<210> 2081
 <211> 360
 <212> DNA
 <213> B.fragilis

<400> 2081
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 tcgttcaata tcgagacagc cccggctttt attctcttgc agcgcgggca cgaattgtgg 300
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<210> 2082
 <211> 2079
 <212> DNA
 <213> B.fragilis

<400> 2082
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<210> 2083

<211> 228
 <212> DNA
 <213> B.fragilis

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<210> 2084
 <211> 1644
 <212> DNA
 <213> B.fragilis

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<210> 2085
 <211> 1029
 <212> DNA
 <213> B.fragilis

<400> 2085
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<210> 2086

<211> 453

<212> DNA

<213> B.fragilis

<400> 2086

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gctacggaag	ttctggtttc	ggccgaagct	tcggggaaac	tcttgtactt	tcatgttgaa	180
gaaggtaccc	ggctgaaagc	aggcgaagaa	gtagggtgta	tcgatacgct	acaactctat	240
ctgaagaaac	tgcaattgca	ggccagcatg	aagtccgttg	aaagccaacg	tccggacgtc	300
aacaaacaga	ttgctgtctac	ccggcagcag	atcgctaccg	cccggagaga	gaagagacgc	360
gtggaaaacc	tgttgaaagc	cggagccgcc	aatcagaagc	aactggatga	ttggggctct	420
caccacgggg	gtggaaggta	tcgcgttcat	ggc			453

<210> 2087

<211> 195

<212> DNA

<213> B.fragilis

<400> 2087

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acagttccta	taagagaaaa	cctctccgtc	gaagttcatc	accttcgttg	cggcagttgc	180
cggaatttgg	tttag					195

<210> 2088

<211> 912

<212> DNA

<213> B.fragilis

<400> 2088

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aacaatgcaa	aaggatacat	aaatcaacca	atattgataa	aaatggcaag	agcgattcaa	120
ttcaccaaga	tgcatggaac	agggaatgat	tacatctatg	taaatactct	cagatttcca	180
atcgcccgtc	ctgaaaaggc	agccatcgaa	tggagtgtct	atcatacggg	aatcggaagt	240
gacggacttg	tgttgatcgg	acactcggat	aaagcggatt	tcagtatgcg	catattcaat	300
gccgacgggt	cggaggccat	gatgtgtggc	aatgcaagcc	gatgcacg	caaatatctc	360
tatgaatacg	gactgacctc	caaaaacgtt	atcacactgg	acaccctctc	gggcatcaaa	420
atattggaac	tacaccttga	aggacggacc	gtggaaactg	taacggtcga	catggggata	480
ccactggaaa	ccggtacgat	tgacttcgat	ggcgaatttc	cgttcccttc	taccaagtgc	540
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gagatgggac	cgaagctgga	aaaacatcct	ctgttccccg	accgtacaaa	tgtagagttt	660
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acacaagcct	gctgggacag	tgctgtcgct	acagccgtag	ccgcacacct	cacgggacgg	780
acggggcgaa	ccgttaacgt	agtaatggac	ggaggcacac	tgaccataga	atgggacgaa	840
gcaacaggcc	atatatctat	gaccggaccg	gccgtaaaa	ttttcgatgg	aacctataga	900
ctgagagaat	ag					912

<210> 2089
 <211> 183
 <212> DNA
 <213> B.fragilis

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 taa 183

<210> 2090
 <211> 201
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222>
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 <223> Identity of nucleotide sequences at the above locations are unknown.

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 nnnncnnna annncncnn nncnaatnct ttncacactt tattcaccaa natatccnn 180
 ncntttatnc ccaaaaaacta a 201

<210> 2091
 <211> 279
 <212> DNA
 <213> B.fragilis

<400> 2091
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 tactacatga ccaatgcccg gatcatgaaa gagggccttg aatctaccgg cctgaaaagt 180
 tacggagggg tgaacgcacc ctattttatgg gtaaaaaact ccaaacgga acaagctcgt 240
 ggcgcttctt tgaccagatg ctatacgaag acaacgtag 279

<210> 2092
 <211> 633
 <212> DNA
 <213> B.fragilis

<400> 2092
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 aagattcaac cggatggagt gttgtcggta gaggcgctta atgattgtct gcgtacgcag 180
 tttcctgaca tactggttgt caatcccacc tttgggtgact tttttgatgt ggcgcgtttc 240
 cgtgaagaga ctgccggcaa aggaatccgg gtagtagcgt tggtcagttc gtttatcgat 300
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 aatttgagcc agcgtgaaaa ggagattgtg atttgtgtgg tgaaaggaat gaccaataag 480
 gagatagccg aaaagctgtt cctctccatt catactgtga ttacacatcg cagaaacatc 540
 agcaagaagt tgcaaatata cagtgcggcc ggtctgacca tctatgctat tgtaaataag 600

ctgggttgagc ttagtgatgt gaaggattta tag

633

<210> 2093

<211> 1137

<212> DNA

<213> B.fragilis

<400> 2093

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gcgctgggca	aactcctttt	tcatgatact	tcactgtccg	agccaccccg	gcaatcgtgt	180
gccacctgcc	atgcttcttc	caagggattt	gccgatgaac	aagcccgtgc	catatccgaa	240
ggagccgtcc	aaggactctt	ttcccagcgc	aactccatgt	cagtgtgcta	tgcggccttt	300
gtgcccgaat	tgcattatga	cgatgatgac	gaaaactatg	tgggagggtt	gttctgggac	360
ggtcgttctc	cctccttgca	ggatcaggca	ggcattccgc	tcttgaatcc	tgtggaaatg	420
ggaaataggg	acaaacagat	gggtggcggag	aaagtgaagc	ggactccgta	ttatgaccgg	480
atagtgcaga	tatatggaga	gacagaacat	gccgattctt	tgtttgcca	tgttacggac	540
gcattggccg	cttatcaggc	atccaaggag	atcaatccct	ttacatccaa	gtatgatgcy	600
tataaaaaag	gaaattatca	gctgaccgaa	caggaagcga	gaggcaagga	actgttcaaa	660
gataaggggc	agtgtgccga	atgtcatatc	ctggaccgtg	acaaacgtgc	gcatcgcacg	720
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tataaggtag	cggcagaata	ttttctgtta	gctgcggatt	cggttgatct	gggactggga	840
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gaactgacgg	ctccgtatgg	tcataatggc	tattttaaga	cactcgagga	gattgtacat	960
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aacaaggagg	aactgggaaa	cctcggactg	acacaggaag	aagaagccga	tatcgtggca	1080
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<210> 2094

<211> 432

<212> DNA

<213> B.fragilis

<400> 2094

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tcaatctatt	taggaaaaga	ttatgatatt	caatattttc	ccgaccccat	ccacgcactt	180
gaatggctac	atgaaggaaa	aacacccgat	ctgattatat	cggatatacg	catgccgctg	240
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gtcatcatgc	tttccagtga	agaaagtacc	agtgaagga	tcaggctgct	gcaagaagga	360
gctgtagatt	atatactgaa	acctttcaac	ccaatggaac	taaaaatacg	tgtcaaaaaa	420
atcatagaat	aa					432

<210> 2095

<211> 405

<212> DNA

<213> B.fragilis

<400> 2095

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aacatggtac	tctatacgat	gaacaaggaa	cacgaagcct	ttgccatacg	ccgtctggaa	180
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<210> 2096

<211> 966

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<212> DNA
<213> B.fragilis

<400> 2096
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<210> 2097
<211> 237
<212> DNA
<213> B.fragilis

<400> 2097
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aggataagg tcatgatgac ctgcgccaga atatacaagc gggagaacgg actgttacct 180
gttaccgtta tccgtaagga tctggccgag cgtatgagcc tctaccatcc gtcataa 237

<210> 2098
<211> 369
<212> DNA
<213> B.fragilis

<400> 2098
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<210> 2099
<211> 273
<212> DNA
<213> B.fragilis

<400> 2099
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ctggctgata tccctaaacc ggatgtcatc ctgactctca aggaagctgc ccgtattctg 180
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<210> 2100
 <211> 3138
 <212> DNA
 <213> B.fragilis

<400> 2100

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<210> 2101
 <211> 381
 <212> DNA
 <213> B.fragilis

<400> 2101
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 ggactggatg ttgtattaac caacgcaagg gacataaaaa acataacaga gagggaaaacc 240
 gacgagtcgg atgccgaatg gctgctgttg ctgcaccagt acgggttgct caagacaagt 300
 tttcagctgc acaacgacgc caaacggatg aggacactca cccgccatcg tgatactctc 360
 tcccgtgagc ctcaagcgta g 381

<210> 2102
 <211> 423
 <212> DNA
 <213> B.fragilis

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 ccgggtgttc tgaatgcggc aaggggagtgt atactgcaga tgaagaagga taaagccgat 360
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 taa 423

<210> 2103
 <211> 468
 <212> DNA
 <213> B.fragilis

<400> 2103
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 cttaacgtgg agcatatttc cgcttatcat ccgatttacg aagaaggtag cctcttttac 240
 aaaatgctgc aacaacactc tgtattttcaa gtggacgagg acagtagtct gaactttctc 300
 tccacattga tagacactct ttctgctgcc ggatacgagc attatgagat ttctaacttc 360
 tgcaaaccta gaatgtattc ccgatacaat acttcttata ggcaaggtag cccttatctg 420
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<210> 2104
 <211> 255
 <212> DNA
 <213> B.fragilis

<400> 2104
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 gttgtggatc ctagattgaa tcatattcta taaaaaatg taatatatat tgttataaga 180
 aaaaattttg tgagcgcccc caatgattgg catcgcaaca gcttcaattg tcagccgctt 240
 gatatcaccg aataa 255

<210> 2105
 <211> 1611

<212> DNA

<213> B.fragilis

<400> 2105

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tgcatagcgg	gcgagacctt	catggcatac	ctgttctttc	ccgcatacgc	attatggccg	180
gcctgcgggt	cgggtggccat	attcgctttc	tccaccgcac	gggaacatct	caagccttca	240
ggacggaaaag	agaacaagtc	tccgatcagg	ttgcccgtca	tttccggggg	tccataccgc	300
catctggaat	tctattacta	ttattccaat	ttcctgggtc	atggaggggc	cggttcggga	360
aagacaaaga	gtatcggcaa	atggctgctg	gaggaatata	tcaagctggg	cttcgcaggg	420
ttcatctacg	attttaagga	cgtggactac	acgcagacgg	cctataacct	gacaaagaag	480
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<210> 2106

<211> 690

<212> DNA

<213> B.fragilis

<400> 2106

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gtggaacgat	tcaatctttt	gtataaaagt	tcgttttaata	aggtttgcaa	ctttgcatgc	180
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cccagttata	ttttctcaca	ggaaatcaaa	tctatcgtaa	tgaaaaccct	caaccaatta	480
tcggaacaaa	ccaaaaaggt	attcattatg	agccgttttg	aaaataaatc	gggaaaggaa	540
attgcccaaa	ctctgggcat	ctcgggtcaa	ggggtagatt	atcacatgaa	caaggccctt	600
aaagaacttc	gtgctgcctt	caaagactac	ctccctatct	taacttggct	ctgttttatg	660
aaccaaatca	ataaagggtg	gattttctta				690

<210> 2107

<211> 474

<212> DNA

<213> B.fragilis

<400> 2107

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cgggagaata	acaactaccc	ttataaatcc	tcccggatgt	ttacctggca	tgttctctac	180
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attgataatt	attatgccac	tcccgatagg	gagaggggga	accagttgct	gaagctgttg	300
aaaagcgtga	tcaaggagtc	gggcgatgag	acttcccctt	tgcgggcgac	cgttcagaaa	360
cgggatgtcg	gaattttcaa	atacatgaat	ttcatcacga	tccgggaaac	caagttatat	420
gttatgatgg	aattggtacg	tatgggttcc	gacagtggga	aacaggatgg	ctga	474

<210> 2108

<211> 309

<212> DNA

<213> B.fragilis

<400> 2108

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gacctgaacg	gcgatgggtg	aaaagatgta	gctgtgggtg	ataaagaacc	gccagccggg	120
gagaagatta	agggcgtaga	atatgtggta	attggtaaaa	ccaatcgttt	gtccgaaggt	180
gatcacggat	atattgaatt	tggctttaac	cagggacgta	aatgggatga	taaaaaatac	240
ttgcgtccga	taccgttgac	ggctactcag	ataaatccgg	ctttattgcc	tcaaaaccca	300
ggttggttaa						309

<210> 2109

<211> 1272

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (36), (149), (1025), (1084)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2109

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ctgctgaatg	cctgtgtgga	gcataatcang	caatatggag	gtcggatggg	agtattccat	180
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aaccgggata	ttctggatgt	ttaccgctgt	tgcgtgcctt	tcaaggtcgg	ttcggctgca	300
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gagttccagg	aatgtttttc	cttttggctc	cgcaagcaac	ttggagtgca	aaaagtggca	480
tgtctgggtg	gaatacgtac	ccaggaaaagc	tttaaccggt	ggagaacgat	ctatcgtagc	540
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ccgttgtatg	actggcatac	tacggatata	tggactgcca	atggccggtt	ccgttgga	660
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ctgccctctt	acaagcggat	gtgcatctgc	atcctgaaaa	acgaccattg	tgcaaatcat	1200
gggcttttta	ccgaacaaag	cggagaaaaga	acgccgacgc	cagacgatgg	ccgagtacga	1260
atcttatttt	aa					1272

<210> 2110

<211> 891

<212> DNA

<213> B.fragilis

[illegible]

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<210> 2114
<211> 210
<212> DNA
<213> B.fragilis
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<400> 2114

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actttgaagt	gcgattttcca	tatgcacact	gttttctctg	atggctctggt	ttggcctaca	180
gtacgtgtag	atgatgctta	tcgcgaatga				210

<210> 2115

<211> 1320

<212> DNA

<213> B.fragilis

<400> 2115

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caggccgtac	tccgcaatcc	gcgtgccatc	agtatgattg	agaatccttc	catacgggtc	120
cagatggctg	ccatccggag	ggataaaaagt	gtcatctgct	ttatagacaa	gccggtggaa	180
aaagtacagc	tcgctgcagt	caggaatgca	ccacacaata	ttcatttcat	cgcttcgccc	240
ggtgagaagg	tacaactatc	cgcatccgg	cataaaccgg	gctacatcgg	ttttatttcc	300
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ataaataagc	ctgcggtaaa	ggtacagtta	atggctgtcc	tgaaagatcc	ggcacatatt	420
gcctccatca	aagaaccggc	cgaaaaggta	cagctggcaa	ccgtgcagaa	gaacccggaa	480
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<210> 2116

<211> 642

<212> DNA

<213> B.fragilis

<400> 2116

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aacagttcta	cagttgatgc	aacatcgcac	cgaacaccaa	gatatcagga	ggaaaaagga	600
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<210> 2117

<211> 309

<212> DNA

<213> B.fragilis

<400> 2117

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atgtggggaa	tatccacaga	agagctgaac	agtaagtctg	gtgaccgact	ttggaaatat	180
tgttcggaa	aagccaaacc	ttatctggaa	aatgggaaat	taaagtgtga	taacgatcgg	240
ttaaagctaa	ccagagaggg	cattttcgtc	tcagacggta	tcatagagcg	cctcttggaa	300
atagaataa						309

<210> 2118

<211> 1563

<212> DNA

<213> B.fragilis

<400> 2118

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<210> 2119

<211> 1083

<212> DNA

<213> B.fragilis

<400> 2119

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<210> 2120

<211> 1299

<212> DNA

<213> B.fragilis

<400> 2120

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<210> 2121

<211> 1068

<212> DNA

<213> B.fragilis

<400> 2121

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<210> 2122

<211> 2439

<212> DNA

<213> B. fragilis

<400> 2122

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 caaaatagtt atacaatggg aaaatttaaat gcaatgaaga ctaaaccttt acgacttctt 240
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<210> 2123

<211> 447

<212> DNA

<213> B. fragilis

<400> 2123

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tgtttctgct	ccccctgcat	ggtcgaacgt	tcagaaatga	ttgtctttgt	ggccgaactt	300
cttttagaaa	ttcataaggt	gaaatattca	tatttaaaag	ttacgccaag	ttatgcctat	360
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<210> 2124

<211> 306

<212> DNA

<213> B.fragilis

<400> 2124

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gataagggac	gattagtgg	tttgctttcc	ggttttcaga	aaaagacgca	gaaaaccctt	240
aaaaaagaga	tagacaaggc	tgtccgattg	atggcccaat	attatgatga	taaaaaaagg	300
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<210> 2125

<211> 951

<212> DNA

<213> B.fragilis

<400> 2125

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caaccagaca	atactataaa	actggaagt	cgaatagaga	atgaaaccgt	ttgggtgaca	180
caagcacaaa	ttgttaactt	attccagtc	agtaaagcca	atatcagtga	gcatataaga	240
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cgaatggaag	gtaatagaaa	ggttaccgc	attcttgaat	attataatct	ggatatgatt	360
atctccgtag	gttatcgtgt	gaattccaag	cgaggagtcc	agttccgcca	atgggtcaaca	420
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aactttgtcg	atgaaagcgt	gctcttacta	ttgagtaaag	gtttgcccgg	agtgaactct	720
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<210> 2126

<211> 270

<212> DNA

<213> B.fragilis

<400> 2126

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aggtataagg	atgaagatac	cggttcaggc	ggcgtaaact	cacttccgaa	acctgagcta	180
tcttattcag	ccggtgtcta	ttttttttgt	ttgtattttt	cggatagctt	atctgttaca	240
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<210> 2127

<211> 183

<212> DNA

<400>	2129						
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<210> 2130
 <211> 996
 <212> DNA
 <213> B.fragilis

<400> 2130
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<210> 2131
 <211> 270
 <212> DNA
 <213> B.fragilis

<400> 2131
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 ttcgaattgc atctattatc taattgttaa 270

<210> 2132
 <211> 207
 <212> DNA
 <213> B.fragilis

<400> 2132
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 aaatctatta aggtattgat agccgccacg gaatattact cactcatatc gggatatctc 180
 ggtgttgaga tcgttacatc cggatag 207

<210> 2133
 <211> 306
 <212> DNA
 <213> B.fragilis

<400> 2133
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 aaaaccctga tagatatagt tgaaaggggg cttggcggta aactgaatat cgaagtaaaa 300
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<210> 2134
 <211> 1122
 <212> DNA
 <213> B.fragilis

<400> 2134
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 gccgtgttcc atttcatcgt gaacgagatc caccgcgtgg aaggctatta catgatcatg 180
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 caggtttcta ccagcgagga gatacagaac aggtatatgg gcatctgcaa gtcgatccac 360
 cgcaagcctt ccatctcgga tgactacctg cttttgaacg cggctgcccc ggccgccacc 420
 tcttccccgc aggttgccgc tccctgtccc gccaccata cggcacctgt tgcggaaccc 480
 gtgcgagtg gcgaaaaaga gaaggatacg gaactgatgc aagccattgc ggattttaaa 540
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 cgcgaaaata gaccacaaaa taaaataaaa gaaaatatat cctcccaaaa cccctccgga 660
 gagtccagct acacaccgga gagggaggag gagagaaatt ctctttcagg gaagctccaa 720
 tacctgggtg tggattccaa tgtcatccaa tgggtacggc tcctgaaaag ccgttatccg 780
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 ctcttgggcg ttccggtgaa ggaccagcag gaaatcctcc agcttgctc cgttgacccc 1020
 ttggtactgg atacagctct gaaggagacc tggggcaaca aaaagatcaa aagccccacc 1080
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<210> 2135
 <211> 378
 <212> DNA
 <213> B.fragilis

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 gtgaaacatc tgcagtcttt gagttccgat gaactatttc ggaagtacca ggagtcacgc 180
 cgggtgtaagc tgcagaacta tgagcaggcc gtcgtatcct tactcttcac ttttcttcc 240
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 tgtgataaga ctgtgcacaa ttacgtgcag tttatccgga agaaacacca tcttccattc 360
 cggtcctgtc gtttatga 378

<210> 2136
 <211> 630
 <212> DNA
 <213> B.fragilis

<400> 2136
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 gcttatgtag ccggtgtggc tgtagccatt ggcggtggta ccatacgtga tgttttattg 180
 gatgtcactc cattctggat gacgaatcct atttatttaa tttgctcggc gctggccttg 240
 ctgtgggtta tcttttttcg gaagcatttg atccacatgc acaatacgtt ttttattttc 300
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 cgtgatgtat ttatcaacga gattccggtt atctttcgta aggagattta tgccatggca 480
 tgtgttatcg gtggagtcac ttattggggg ctcgatcggt tgggggtaga tgccgccttg 540
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 atttgcctgc ctatcttgaa gggggaataa 630

<210> 2137
 <211> 312
 <212> DNA
 <213> B.fragilis

<400> 2137
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 tatattgatt gggatgataa agtaagtgtg gagcatctgc cggcagacgg tttgtgcatc 180
 ttggcaaccg ttcccagcga ttgtaatatg agtggaatgc ccgaatgtgt ttgcccagca 240
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 attagtattt aa 312

<210> 2138
 <211> 1341
 <212> DNA
 <213> B.fragilis

<400> 2138
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 gataaactcc agaactctgga taaaagtcgg aatctgaaag atagttggca tatattaagt 180
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 atcgcccta tcacccgggc tatcgatgcc gcaaaggcac agggtaaacy tatttcttat 360
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 gaactgggtcg tgtaagaccc ggccgcattg ggagcctgta tggacaaact gatgaacgga 1260
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<210> 2139
 <211> 498
 <212> DNA
 <213> B.fragilis

<400> 2139
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 cagcggcatg ggcgcgaggt ccgtccctct tatgagatca gcaacttcgca attttctgat 180
 atgaaagtca ggagactgac gcgtaattac ggattcgggtg gatacagcat ctaccgttat 240
 ctggtgagtg aggccctcta caagggggag tatttcttct cctggtgtga ggagaccgag 300
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 gccgccatcc agcaggacta cctcaagtta tgcggcatgg gctacatcca ggaggagtcc 480
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<210> 2140
 <211> 267
 <212> DNA
 <213> B.fragilis

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 gaagctgccg aaatggtaaa gcaggaaaaca aaagagaaat gtcaaatagc ctttcgaaat 180
 tttatgctta gagcaacact tgcaaatgtt tccggtgaat cacttgactt tgaaaaagag 240
 tttgcagata ctatgagtca aatttag 267

<210> 2141
 <211> 963
 <212> DNA
 <213> B.fragilis

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 ctttcccggc ggtacggggg atacgacatg taccgtctcc ctttcccgtg cgacagctct 180
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 ggcagggtcg tggatctggt catgcgcatc cagaactgct ctttcccaca ggctatgaaa 300
 gagatcgaag gactgggctt ttccctccggc atgattccgc agccaaggcc ggtaacggta 360
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 ctgcttgatt atgcccgttc acgggggcac gacgcggata tcgtccgtga acactgcgtg 480
 gaggtgcatt actgcttcga gaagaatccc cgcgagaaat acgcgctggg gttcgccaac 540
 gaccacggag gtttcgaact gcgtaacagc atgttcaagg gatgtgccac cgccaaggat 600
 attaccggcc tggccgcagg caacagggtcc tgtgcccgtt ttgaagggtt cttcgacctg 660
 ctgagtttca agcaatacgc gaaggatcat cccagatgc cggcactgag aaaactggac 720
 ctgtgcgttc tgaattccac ttccatcggt gagcgggtcaa aggattttct ttcaaggat 780
 gaaaaggtag acgctttcct ggataacgac agtccgggac gcgaggccct gagaaagatg 840
 cggcatttcc ttcccaaggga cacgggtattt gtgaacgaag cggaacgcct gtatccgtca 900
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<210> 2142
 <211> 2193
 <212> DNA
 <213> B.fragilis

<400> 2142
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 ccattaatgt acatttccgt tttctatgaa gggaaaggag taggtggcat atccaacgct 180
 aacggagaat ataaggtgga aaccgcgaaa ggctggaatg agctgacttt ttctgcggtg 240
 ggatatatca ccaagaaaagt gaagattccg gcgggtgcca aagaactcaa tgtagtactc 300
 tcaccggatg atgtaatgct ggaagaagtg gttgtaaaac ctaaaaagga gaaatattcc 360
 cgaaaaaaca atccggcagt agagtttatg cggaaggtaa tcgaccataa aaaagctcag 420
 aagctggaaa ccaatgacta ttaccaatac agcaaatatc agaagatgaa gatgtcactc 480
 aatgacgtga caccgcagag tcttgagaaa gggatctata aaaagttttc tttcctaaaa 540
 gaccaggtcg aggtttcgcg cgagactaac aaactgattt tgcccatctc cgtacaggaa 600
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 atgaaactcaa atggcgtaga ggaattcttc tctacoggtg atatgttggg tactatcctc 720
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aatggatatg	gagcctacgg	acttaaagac	aaaaaatgga	aatatgaggg	caatgtaacc	1560
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aaagacactc	cggccggtaa	acttcaatac	atccgtaacg	atgctgcaa	aacaattgtt	1860
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gtaaacacga	aacagcgctg	gcgtccgggtg	tcgctggatg	ctcccatctt	caccctttct	1980
cacaccaccg	gattcaaagg	tgtattggga	ggagagtata	atttcaattt	gacggaagca	2040
agtatctgga	agcgcttctg	gctttcgtct	tggggcaaag	tagacgtcac	cctgaaaggt	2100
ggggcgcaat	ggaataccgt	tccattcccc	ttactcattc	tgccggctgc	caacctttca	2160
tatattaccc	aaaaagaaac	tttcaacctg	atc			2193

<210> 2143

<211> 333

<212> DNA

<213> B.fragilis

<400> 2143

ctaataccta	ttcaaagtga	taaaatagaa	gatttagtaa	aatggaaaac	tgtcgagaca	60
gtgactccta	attaccccga	tgggtgtaac	tttataaaaag	aagacacgtc	tgtagaattt	120
ccattagcta	tggctcgcttt	tccacttgga	gggcatgaga	atgggactaa	aaagcaacga	180
gagagagcta	agttaatagc	tgctgccccct	gaattactga	atgcattaca	aggtatgctg	240
gaacggtttg	attataatga	tcaggctatt	tattcttttg	ctaccaaaga	gattgatgca	300
gccaaagcag	caataaaaaa	agctatagag	ttaa			333

<210> 2144

<211> 540

<212> DNA

<213> B.fragilis

<400> 2144

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cgtatcatgc	ttctgatatt	gttcattgca	ggaacaggta	tcttcacact	tcaggctcaa	120
aaccgggaag	aaaggaaaga	gctgaaggaa	cagactgtaa	aagagaagat	tgaatcgga	180
aactatcgga	tcgacataaa	tacggcatac	ccgcgtaggg	gacgtatgat	tccattgaca	240
tcaatctatt	ccgtaacaat	tcggaatgat	tctgtctttt	cacaactacc	ttacttcgga	300
cgcgcttact	ctatccctta	cggaggagga	cagggtattga	tgttcaatgc	cccaatcgat	360
caatacacca	tggccatggg	aaaacgcgga	gctgcaaaaa	tcaactttac	cgccaaaagt	420
cccgaagatc	agttcagatt	caggataaca	atctattcca	acggttcac	cagcatagat	480
gtcgaatgc	aaaaccgtga	atcgatcagt	ttttcagggtg	acttgatatt	gccggaataa	540

<210> 2145

<211> 198

<212> DNA

<213> B.fragilis

<400> 2145

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ggtatagatt	cagttgaaga	tgctcagagt	ataatctcgc	ataagaaatt	gaaagctctt	120
ggtgcgaaac	gtagagttta	taaagacacg	agagagagct	tttttcttat	tgaatccgat	180

198

<213> B.fragilis

aagctcttgg	tgcgaaacgt	agagtttata	aagacacgag	agagagcttt	tttcttattg	60
aatccgattg	tgaaatcatc	ctctaaactt	gaaggatga	agaaatattt	agcaattgaa	120
attcgtggtg	aaatatctgt	tatgaatgat	aatgatgaat	taggaggact	gatagataat	180
gatgtcccgt	ttacgggtcat	tggtcatgta	tgcaccgaag	aatgtaatac	aacatgctta	240
cattaccgtc	aagggtacgtg	tccctgtaaa	atcatgaaag	atacttttgg	taaagtaatt	300
catgtttttg	tgtga					315

<213> B.fragilis

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ataaaaaatgg	aaatac ⁺ gagg	aaaaatcatc	gccgtacttc	ccgtcaagga	cgggatcg ⁺ gc	120
aagactaccg	gcaatgaatg	gaaaagccgg	gaattcg ⁺ ttc	tggagacaga	agagagcaaa	180
ccgcagagcg	tatgcctgca	gctgatgaac	gccaacatcg	agcgg ⁺ tacgc	cgtcgagg ⁺ tta	240
ggtatgaccg	tacacgtcaa	atttgacatc	tccgccgcgc	agtgggagaa	ccgctgg ⁺ ttc	300
aatacgctga	cagcctggga	agtgactgtc	attaagcaaa	aggaggaaca	gccggcatga	360

<213> B.fragilis

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ggaatcaatt	atacgggaga	gttcctcata	gacagcatcc	gcatgacggc	cacttcaccc	1440
cccaggggca	gttcggaaat	gaaccttttc	ctttccaggg	aacgtgcgct	ggcactgaag	1500

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aaataccttg cgcacgcac ggaagaccgg gaaggggtcg atacgtttt cgcgccgcgc 1560
tggaaccggtg aggaatggag caggctgcac gaactgggtcc ttccagatga cagcctggca 1620
aacaaggccg gcattttacg tatcctgaaa gagacgaaga atcccgacag ccgggaacat 1680
gccctgcgcg aatatgcttc cgactacaaa cgcacccggg aaagggctctt c 1731

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<210> 2149
<211> 357
<212> DNA
<213> B.fragilis

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<400> 2149
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acgaccaacc tgaacctgga ggcattccatg accctgggccc gtaaattggc gcttcacctg 180
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gctccgggtg tacgctactg gctgctcgag agctatatgg ggccatttat cggcatgcac 300
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<210> 2150
<211> 330
<212> DNA
<213> B.fragilis

```

```

<400> 2150
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atgcgaagca cttcggcgga agaagtgcgt gtagccgctc tgggtgcattg ccataacgct 180
gttatagata gataacctgg aacaatcggg atgtgcagtg ccaaagtaca gccagaaat 240
acaaagacgg actattcggc ttaccactcc ggaatggatg acggacggag tatcagcctg 300
caccggcaaa taaacggagg aaatgtatga 330

```

```

<210> 2151
<211> 288
<212> DNA
<213> B.fragilis

```

```

<400> 2151
agaatgaagg gcacatactg gtatgccgtg gactatgccg gcacggggca cctttttacc 60
tacaagcccc aaagggatgc ggggatctgg aacggggagg aggccctgca ggtttcccaa 120
ggggcactcc gggaggtatt ccccaagatc acctggcagg actcaccgct agtggttaaca 180
ctggaggtac taccctgtga ggagacctc cgctgcgcc tgtcaaagaa ctgcggttat 240
atcctgagaa aatatctccg tttcccccg gaaggaaaaa acaaatga 288

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<210> 2152
<211> 186
<212> DNA
<213> B.fragilis

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<220>
<221> unsure
<222> (8)
<223> Identity of nucleotide sequences at the above locations are unknown.

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<400> 2152
aggaaaaangg ggaatgggga aataaagggg aggggggtgga agatgggaat gagatggttt 60
caaggagggtt ttgggagcaa attaatgttg tgggagaagg ggggggggaa tgaggagaa 120
gcggaaaaaac ggaagattaa aatggcctgg atttgtgaac cggtaacctg acagaataat 180
atatag 186

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<210> 2153
 <211> 222
 <212> DNA
 <213> B.fragilis

<400> 2153
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 aagcaaaaata tgaatgtgaa aaatatgaat aaaataaaca cagaaaaatc tccggccatt 120
 acgcttaaca accggagact acacaaacaa aacaaacaat acatagcttt atcttcccag 180
 accaagctga caaaaacatt aaatattagg atacaaatat ag 222

<210> 2154
 <211> 417
 <212> DNA
 <213> B.fragilis

<400> 2154
 accgtagacg tatcacgcgg agaatggaga tacaggataa aagacaggaa cccattaaat 60
 aacagccata tgtatttcat acattacata cagacatacg catcggtgaa ccggaaggga 120
 agcgagctcc aggaatatgt cctgcagctc aaggacagcc tgataaagga cagggagggtc 180
 ctggatgacc tgaaagagga actccactgc cggatcgggg agcttgacgc caagtatccg 240
 cgtacacaaac ccctgcatct ggatgcggca agcggcaggg atagcatcca atggatcatc 300
 cacgtgaaag gcaagccgga taacctgata tgtattattt cgattacgaa agtcagaaac 360
 ctgctggggag aaggaaccgg tttctttctc ggggaaaaga caggaggtaa agaatga 417

<210> 2155
 <211> 1296
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (81), (138)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2155
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 gaagcgatat ttcggttacc ntatagcgtt ctctggttg cttcacatac tcttcgagga 120
 attcctataa tagcccgncac gtaccacgcc tgcagggtga ccaatggcat tacgctcgaa 180
 cttgccgtcc ttcatcttac ggatgacacc atcattgtac ttactatga taaattcgcc 240
 caaacgtttc caagtatcga aagtgccttg cgctgtcatg tcggtatagt tggtcagaaa 300
 cttcacagcc gtttcgggat tcttctcgta caacttaaca gcaactgctt caataccttc 360
 ctgtgcctcg ttgaagggtg tttcaagttc gttctgcgta gcacgtacat cgccgatcat 420
 caaatcgtag cggggatata ccatggttggc caccagttg aaaatccaaa aagcggagtt 480
 ccaggagaag gtgatgtaat cggcaccgct tacacgcgta tagcataccg gagctttggg 540
 agtacaacaa tatacgggag tgaaaacagt catggttgga tcatccgtac caaaccaaag 600
 cacaccgctt acagcatcgg gaagattggc acgcatctga gccacaaaaa cgaaaccgct 660
 ctggttggtg gagatgggac gctcattgaa atactccttg tcgcctacct tgaaagtcag 720
 cggagagagg cggttaagggt ttttataagg tccggcacca aaatcattgc tgatgtcgag 780
 ggcggttctt tcataatggt cgcgcatggc attctttaca tcttgaacgg agagtgtgag 840
 tttcggtttt acgaacagag gcatagggtt attggtcttt ccttggatat aaggcagata 900
 ggcttcacct tggtcggtta acatattgaa gtatgctcac acacgggctt cacagaaacg 960
 gcgggcaccg aaatcgagcg gtgcataagc atcggcaaag ctgaagtctt tgttcacacc 1020
 gctgaaatat cttttttcgc gggcaaaaga aataacgtca ttagaataca tgcagttggc 1080
 cttgtcagcc atatcgaaact gatggatgag cgactggttg gcatgtgccg aaatgcagtc 1140
 gtccggcact cggacagcta cccatacggc tccccggatg ccgggacctt tacctatcat 1200
 ctccataatc catatttcat tgggatcggc aatggtgaag actcgccatg ctgtaatatc 1260
 cgtattcctg caccagttca gtgtcttcac cgcggg 1296

<210> 2156
 <211> 2292
 <212> DNA
 <213> B.fragilis

<400> 2156

aatctacaca	aaggtatgaa	aaataacact	ttgtcggggg	catattaccc	taaaaatccc	60
caaataaaac	atTTTTTTtag	aattatgaga	attacattgt	tcctattgat	ggcatgtgtt	120
TTTTCTTTat	atgccggaaa	ttcctattct	caaaatacaa	gagttagttt	tgccatggat	180
aatgtaggac	tcaataagggt	cctagaggag	atagagagtc	agacggatta	tctttttatt	240
tataatagtc	agataaatgt	aaataagcta	gttactatta	aggcaaataa	gcagacgggt	300
tcaaagggtat	tggatcaaatt	attacagaac	actgggtattg	aatataaatt	ggaaggctcg	360
catatttatat	tagaaaaaaa	agtagaagaa	gttcacaata	gctcgtccgc	cgttcagcaa	420
cagcaaaacta	aaaagataac	cggaaaagtt	gtcgataaga	caggagaggc	tattattgga	480
gcgaatgtca	aaatacaagg	tacagataaa	ggaactatta	ctgatctcga	tggtaatttt	540
atcttggagg	ttgctccaaa	ggatgtgctt	gttatcagtt	acataggcta	tttggatacg	600
aaagttccca	tagctgggca	aaaacagatc	catgtgggtgt	tgtctgagga	taataaaatg	660
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ccttctatct	cgatccgtgg	cgggtggcgca	cctgtctatg	tcatagatgg	tgttatttcc	900
gatgcttggg	atttcaatac	gttgaatccg	aatgatatcg	aaagcctttc	aattctaaag	960
gatgcagcat	ctctggctgt	ttacggttca	cgggctgcc	atgggtattgt	gatggtgaaa	1020
accaaacagg	gaggtaaagg	aaagacagcg	gtgaattata	cgtttaatgc	tgaattcagc	1080
caacctacca	aattactgaa	aaagactcgt	ggttatgact	atgcttacia	ccaaatgctt	1140
gccggtatca	atgatggttt	ggacgaggca	gatttacctt	ttaatcagga	agtattggat	1200
atcattaaaa	atcagtcaga	tccttataca	tccggacacg	ccgatacaga	ttggctggga	1260
gaaggattga	aaactgttgc	tcctcaatac	aagcatacgg	tatcattgag	tggaaagcggc	1320
aataagggtga	attactatat	ttctctgggt	atgctcaatc	aaggtagtat	ctatacttcg	1380
aatgcactga	actatgaccg	ctatacagtt	cgcagtaatg	ttaacacgac	ttttgataag	1440
attgggtctga	aggtcagcct	gaatctgaac	ggagcttatg	aaaaaaagga	ataccctctt	1500
ttctcagcgg	caaagatctg	ggaagatctt	tataaccagt	ctccactgaa	tccggcttac	1560
aataaggatg	gtacttatgc	cgcagttacc	gaccatccgt	tggcggaaat	ggacaagcgt	1620
tcgggatata	acaggaacta	tggcaaattc	ataaataccc	aagtagctgc	ggactggaca	1680
ttgccttgggt	taaaggagtt	aaccttgggt	gctatgttca	actatcgtct	gaacgactca	1740
catgtgaaga	aattcagtac	taaggctcct	cagtattacg	cagatggagc	tgtatatcca	1800
ataggtaaac	cgacattgaa	tgaagaaggc	tattggggag	agtcctacaa	tttcgaagta	1860
agtgccgctt	atgtgaaaac	ttttgccgaa	aagcatacga	ttgatgctaa	attcgtttat	1920
aatgttgacg	aaaatactgg	atggaatttt	aatgcatatt	gtggggaata	cttatctacg	1980
gttgtggacc	agctatttgc	cgggtgcagca	tatacgcagc	agaatggcgg	ctattcggat	2040
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gtggaaggta	gtttccgtta	ctatggatcg	gataacttca	ctccaagaca	tcgttgggga	2160
ttcttcccct	ccggagcgga	ggcgtggggc	atcagtgaag	aacctttctt	taaagagtgg	2220
gaacaacatg	tattcaattt	gctcaaactt	cgccctttct	tatggacaga	cccgtacgga	2280
aaatgggagt	aa					2292

<210> 2157
 <211> 213
 <212> DNA
 <213> B.fragilis

<400> 2157

tttgggggaa	aaactgcact	tcaggattta	attaaaaggg	gctttagggt	gcctccggaa	60
actgctttat	cctgggatta	cgggggaaat	tcctttatata	tctgggattg	gaatattggc	120
tttttttcaa	ctaactgctt	tgtaaaagggt	caccttagaa	atattttctta	ttaccgcaaa	180
cccaaagggtg	gggttaatat	aattccgcgg	tga			213

<210> 2158
 <211> 1194

<212> DNA

<213> B. fragilis

<220>

<221> unsure

<222> (1159)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2158

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accattgccg atcccaatga aatatggatt atggagatga taggtaaagg tcccggcatc 120
cggggagccg tatgggtagc tgtccgagtg ccggacgact gcatttcggc acatgccaac 180
cagtcgcgca tccatcagtt cgatatggct gacaaggcca actgcatgta ttctaatac 240
gttatttctt ttgcccgcga aaaaggatat ttcagcgggtg tgaacaaaga cttcagcttt 300
gccgatgctt atgcaccgct cgatttcggt gcccgccgtt tctgtgaagc ccgtgtgtgg 360
agctacttca atatgtttac cgaccaaggt gaagcctatc tgccttatat ccaaggaaaag 420
accaatgacc ctatgcctct gttcgtaaag ccgaaacgca aactctccgt tcaggatgta 480
aagaatgcca tgcgcgacca ttatgaagga accgccctcg acatcagcaa tgattttggt 540
gccggacctt ataaaacacc ttaccgcctc tctccgctga ctttcaaggt aggcgaccag 600
gagtatttca atgagcgctc catctctaca caacagagcg gtttcgtttt tgtggctcag 660
atgctgcca atcttcccga tgctgtaggc ggtgtgcttt ggtttggtac ggatgatgcc 720
aacatgactg ttttcaactc cgtatattgt tgtactacca aagctccggt atgctatacg 780
cgtgtagacg gtgcccatta catcaccttc tcttggaact ccgctttttg gattttcaac 840
tgggtggcca acatggtata tcccgcctac gatttgatga tccgcatgt acgtgctacg 900
cagaacgaac ttgaaaccac cttcaacgag gcacaggaag gtattgaagc agttgctggt 960
aagttgtacg agaagaatcc ggaaacggct gtgaagtctt tgaccaacta taccgacatg 1020
acagcgcaaa gcacttttga tacttggaac cgtttgggcg aatttatcat agtgaagtac 1080
aatgatgggtg tcatccgtaa gatgaaggac ggcaagttcg agcgtaatgc cattgggtcaa 1140
cctgcaggcg tggtagctnc gggctattat aggaattcct cgaagagtat gtga 1194

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<210> 2159

<211> 1761

<212> DNA

<213> B. fragilis

<400> 2159

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aagtggctga ccccgccgta tgatgccgaa actcaggctg aagtgaacg catgctggag 120
aacgaagata agacagaatt gatcgaggcc ttttacaacg atctcgaatt tggtagcgcc 180
ggactccgtg ggatcatggg cgtaggtagc aatcgtatga acatctatac tgtcggagct 240
gctaccacag gactctctaa ctatctgaac gcaaacttta aagatatgaa acagatttcc 300
gttgtagtgc gatacgattg ccgtaacaac agttctctgt ttgccaagat ctctgcggat 360
attttctcgg ccaatggcat taaggtatat ttgttcgaag agatgcgtcc cactccggag 420
atgtcttttg ccatccgtca tctcggttgc cagagcggca ttatcctgac tgcttcacac 480
aaccgaaaag aatacaacgg ttataaggct tattgggacg acggtgcgca agtactggct 540
ccgcacgata agggcattat cgatgaagtg aataagattg cttctgctgc cgatatcaag 600
ttccaaggta acccgatct gattcagatc atcggagaag atgtcgataa gatatactg 660
gatatgggtg agactgtttc tatcgatcct gaagcgatcg cccgccataa agatatgaag 720
attgtataca ctccgatcca cggtagaggc atgatgctga ttccgcgtgc actgaagatg 780
tggggattcg agaacgtata taccgtgcc gagcagatga ttaaggacgg taacttccc 840
acagttgtct ctccgaatcc ggagaatgag gaagctttga cgatggctct taatctggct 900
aaagaaattg atgccgacct tgtaatggct tccgaccgg atgccgacc cgtaggtatc 960
gcttgtaaga acgataaagg cgaatgggta ttgattaatg gtaaccagac ttgtctgatg 1020
tatctttatt acatcttac taccgaact aaactgggca aatgaccgg taatgaattt 1080
tgtgtgaaaa ctatcgttac taccgaact atcaagaaga ttgccgataa gaatcacatt 1140
gagatgctcg attgctacac cggtttcaaa tggattggcc gtgaaattcg tttgcgtgaa 1200
ggcaagaaga aatacatcgg cgggtggtaa gaaagctatg gcttcctggc tgaggacttt 1260
gttcgtgata aagacgctgt ttctgcttgc tgcctgattg ccgaagtggc tgcttgggcc 1320
aaggataacg gaaagactct gtatcagttg ctgatggaca tctacgttga atatggattc 1380

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tctaaggaat	ttactgtaaa	cgttgtgaaa	ccgggtaaga	gcggtgcgga	agagattaaa	1440
gccatgatgg	agaatttccg	tgctaaccct	ccgaaagagt	tgggtgggtc	gaaagtgggt	1500
ctgtcgaaa	attacaagac	tctgaaacaa	accgacgcag	cgggccatgt	gactgacatc	1560
gatatgccgg	aaccatcgaa	tgtactgcaa	tatttcacag	aagacgggtg	aaaagtatct	1620
gttcgtccgt	caggaacgga	gccgaagatc	aaattctata	tcgaagtga	aggtagatg	1680
ggatgccgca	actgttttgc	tactgccgat	gcagaagcta	ctgaaaaagt	agaagcagtg	1740
aagaagtcac	tgggtattta	a				1761

<210> 2160

<211> 195

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (54), (111)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2160

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attataggaa	ttcctcgaag	agtatgtgaa	gcaaacagga	gaacgctata	nggtaaccga	120
aatatcgctt	caaaaagttt	tctgactaaa	agatatgaat	tcaaacttat	tcttttacat	180
ttgtatttta	attaa					195

<210> 2161

<211> 246

<212> DNA

<213> B.fragilis

<400> 2161

gaactattta	tccaggaaaa	cgacagtgat	cgtttccctg	tactctccc	tatcattgta	60
gaaacgggaa	aaatcagcac	gcggatagga	gacattgtcc	gagtggagg	cactgcacaa	120
gtcctcggct	ttttagagaa	tagtcccaaa	agaaatgcc	catccaatga	aggacaaggc	180
attccaataa	tattatggat	acattttatac	gatgctaagt	atccgtcaaa	agagtattta	240
aaatag						246

<210> 2162

<211> 945

<212> DNA

<213> B.fragilis

<400> 2162

tacattgtca	tggacaaaga	tttactatat	aatttttata	aaggaaaggt	ttccatagaa	60
gaaggacaaa	gggtcaaggc	ttgggtagaa	gcatcagacg	aaaacgagcg	cgctttctat	120
agggaacgta	aaatttttga	tgctttagatg	cttaataatc	cgcttccggg	aaagaaaacc	180
tcttttttca	attttacaca	ttataaaaaa	atagagtggc	tgaaaattgc	catggctgta	240
atattgacat	ttctgcttag	ttatttctat	caggagtata	aagccgggtct	ggattcagtg	300
gcaatgagta	cgatttctgt	tcctgaagga	caaagaacca	atgtcacatt	acccgatggg	360
agtaatgttt	ggttaaattgc	atgtacaacg	atacaatatc	cgacttcttt	taacagccgg	420
gagcgtttcg	ttatactaaa	aggagaagct	tattttgatg	tgaaaaagaa	taaaagcaga	480
ccgtttatag	tgcacacaga	tgcttatagc	atcgaagtat	taggtacgaa	gtttaatgtg	540
gatgcatatc	cggaaacaga	aaaatttgaa	actacattga	tgcatggcag	tgtaaaggctc	600
actttgaaag	cagattcatc	gcaaacagta	atattaaagc	ctgatcataa	attgtcatta	660
gaaaaaggac	ggtttgtaat	gactaaagtg	gaagattata	atccttatcg	atggaaagaa	720
gggcttatct	gtttctctga	cgaatctttt	cctaataatta	tgaaagactt	tgaaaagtat	780
tacggagtga	aaatagtgat	agagaataaa	aatgtattgc	agattaattt	tacggggaaa	840
ttcagacaaa	ccgacggaat	agattatgcg	cttcgtatct	tacaaaaaaa	tatagatttc	900
caatatgaga	aagataatga	aaaacaaatt	atctatataa	aataa		945

<210> 2163
 <211> 588
 <212> DNA
 <213> B.fragilis

<400> 2163
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 aatgattatc agacacgttt tttgaatttt gctaatacct atgtcagaga ttgggatgta 120
 gcggaagata taacaacaga ggcgttaatt tattattggg aaaacagaaa tactttatct 180
 gaagtatcca atattcctgc atatatactt accatcataa aaaacaaaag tcttaattat 240
 cttcgtcatt tgcagatacg ggaagaacat tctgaaaata ttagaaaata tattgagtgg 300
 gaactcaatg cacgtatcgt ttcttttagat gcttgcaaac cttatgaact tttagtcaaa 360
 gagatgcaag agctgattca gcaaaccttg gataaattgc cggagcgtac acgcaaaata 420
 tttatttttaa gccgttatga aaacaaatcg tataaggaga ttgctgctct aatgaatatg 480
 acaaccaaag gtgtagactt tcatatttgt aaagctttta aggcattaca gattaaccta 540
 aaagattatt ttccattatt tctttatttt ttgatgaaat ttcactag 588

<210> 2164
 <211> 1890
 <212> DNA
 <213> B.fragilis

<400> 2164
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 gaatatacag acgacaacat cgcacacctg agcgacatgg aacatgtgcy caccctgccg 120
 ggtatgtaca tcggttaagct gggcgacggt tcgcataccg aagacggaat atatgtcctt 180
 ctgaaagaag ttattgacaa cagtatcgac gagttcaaaa tgcaatccgg caagaagatc 240
 gaaatcagag tgggaagagaa tcttcgtgtc agtgtagcgc actacggccg cgggtatcca 300
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 gctttcaaga aaagtgtcgg actgaacggt gtcggcgtga aagctgtcaa tgctttgagc 420
 tcaaacctttg aagtacgtag ttaccgggat ggtaaagtgc gttgcgccac ctttaccaaa 480
 ggagagttgg tgacagacca cacagaagat acggaagaag aaaacggtac ttacatcttc 540
 ttccaaccgg atgaaacttt attcctgaat tatagtttcc gtcccgaatt tatcgagacy 600
 atgctgcyca attacacata cctgaacacc gggctggcaa ttatctataa tggccaaccg 660
 atcctttcgc gcaatggcct ggtagatttg ctgaatgata acatgacagc taccggcctc 720
 taccatcgcg tacatctgaa gggcgaagat atcgagatag cctttacca taccggacag 780
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 atgtttgaaa gccagaccaa aatcaaaact ggctctacca atatgtcgcc gggaggcatc 1020
 acagtaaata agttcgtggg tgacttcata aaacaggagg tagacaattt cctccacaaa 1080
 catgccgata tagccgaaat catgttgcaa aagatacagg attcggaata agaacgcaaa 1140
 gccattgccg gaggtagcaa actggcacgt gaacgcgcca agaaagccaa cctgcacaac 1200
 cggaagctgc gtgattgccg cgtccacctg aacgatgtga aaggcaaagg actggaagag 1260
 gaatcgtgca ttttcatcac cgaggggtgac tcggcaagcg gctctatcac caaaagccgg 1320
 gatgtgaaca cacaagccgt attcagcctc cgcggtaagc ctctcaactc tttcggcctg 1380
 accaaaaaag tagtttacga gaacgaagaa ttcaatctgc tgcaagctgc attgaatata 1440
 gaagacggta tcgaaggctt acgctacaac aaagtgatcg tggctaccga tgccgatgtg 1500
 gatggtatgc acatccgctt gttgctgatt actttcttcc ttcagttctt ccccgatctg 1560
 ataaagaaag gacatgtata tatactccaa actcctctct tccgcgtacg caataaaaaag 1620
 aaaacgcttt attgtttata cgaagaagag cgtgtaaatg ctattaaaga gcttagcccc 1680
 aatccggaaa tcaccgcttt taaagggttg ggggaaatct cgcccagcga attcagacac 1740
 tttatcggca aagatattgcg tctcgaacaa gtatcgctgc gcaaaacaga cacggtaaaa 1800
 gaactactcg aattttacat gggtagaagt acaatggaac ggcaaaactt tattattgat 1860
 aatctggtta tagaagaaga catcgcataa 1890

<210> 2165
 <211> 483
 <212> DNA

<213> B.fragilis

<400> 2165

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gaccggttta	ccatcggaca	ctactccgta	gttcaacgca	ccctgacatt	catggacgaa	120
gtggtcatcg	gtatcggat	caacgaaaac	aagaatacat	actttccgat	cgagaaacgt	180
gtggaaatga	ttcgttaagtt	ctataaagac	gaacccccga	tcaaggtcga	atcttacgat	240
tgcctgacga	tcgactttgc	ccgtcaggta	gatgcccaat	tcacgtttcg	cggatatccgt	300
accgtgaaag	acttcgaata	cgaagaaaca	attgccgata	tcaaccggaa	actggccggc	360
attgaaacca	ttctgttatt	taccgaaccg	gaattgacct	gtgtcagctc	taccatcgtc	420
cgcgaaactgc	ttggctataa	taaggatatc	agtatgttca	ttcccaaagg	gatggaaatg	480
taa						483

<210> 2166

<211> 441

<212> DNA

<213> B.fragilis

<400> 2166

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aaaaaccaga	gcagaatgcc	cgaaccgacc	aagggtgaaaa	ggtcgaagtt	attgatgcct	120
gtcagccgca	agggagtgat	ggaagcactg	catcccaata	caaagaagat	gttgaacaga	180
ttactgccga	tcacattacc	gatggctatt	tccggattct	ttttcaaggc	agccactatc	240
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tcgtgacgc	caagggtgccg	tgcgatgttg	cttgctccct	ctacaaacca	ttgtcccccg	360
aaaataagtc	cggccaatcc	gcccgagaatg	aaaagtacgg	atttccacat	cgggaggctt	420
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<210> 2167

<211> 1146

<212> DNA

<213> B.fragilis

<400> 2167

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gacatgctga	atacattcaa	taagaagaaa	aatgcccgat	tcgagttctg	tgaggccgag	180
tactttctgg	cttataaaga	cggaaaaaat	gtagggcgca	tcgcaggat	tatcaatcac	240
cgtgccaatg	ccacttggaa	caaaaaagat	gtccgtttcg	gttggatcga	cttcatcgac	300
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atggagaaca	ttcagggacc	tcttggattt	accgacttcg	acgcagaagg	tatgctgac	420
gaaggattcg	accaactcag	taccatggca	accatctaca	atcatcccta	ctatccgcaa	480
cacatggaga	aactgggatt	tgagaaagat	gccgactggg	tggaatacaa	aatttatatt	540
cctgacgcca	tccctgagaa	acaccagcgc	atatccgatc	ttattcagcg	taaatataac	600
ctcaagataa	agaaatatac	ctcatccaga	aagattgcag	ccgattacgg	acaagccatc	660
tttgagttga	tgaacgaagc	ttatagtccg	ctgtacggat	actctccgct	ttcgcaacgg	720
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caatgggaat	actttaaaac	cgaacaacat	aaacgtcgtc	gtgcgtttac	taagaagata	1140
gactaa						1146

<210> 2168

<211> 972

<212> DNA

<213> B.fragilis

<400> 2168
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 atcgtaatcg gcctgactat cgtagctttc ggaacttccg ccccggaact gaccgtagc 180
 gtatcgctcg cctgaaagg tagcgcggaac atcgccgtag gtaacgtagt gggaagtaat 240
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 cggaatactt tgcggaaaga gattccgcta tgcattctct cctccatcgt cctgctgata 360
 tgcgccaatg acgtttttct gaataaagct tccagcaaca tactaagcat ctcgacgga 420
 ctgattctgc tctgtttctt caccatcttc ctgggctaca catttgccat agcctcacc 480
 acaacaata ctcaaccgga agaggaaatc aaaagcctcc cgatgtggaa atccgtactt 540
 ttcatctctg gcggtattggc cggacttatt ttcgggggac aatggtttgt agagggagca 600
 agcaacatcg cacggcacct tggcgtcagc gaatctgtta tcggactcac actggtagcc 660
 ggaggtacct ccctaccgga acttgctaca tcgatagtgg ctgccttgaa aaagaatccg 720
 gaaatagcca tcggtaatgt gatcggcagt aatctgttca acatcttctt tgtattggga 780
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 tatcagattt ga 972

<210> 2169

<211> 921

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (795)

<223> Identity of nucleotide sequences at the above locations are unknown.

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 atctctaatt tatatgtaga tacggtcaat gaaaacaaac tggttgaatc ggccatcata 180
 gaaatgctgg cacagctcga ccctcattcc acctattcgg atgccgaaga ggtgaagaaa 240
 atgaatgaac cgctccaagg caatttcgaa gggatagggtg tacagtttca gatgatcgaa 300
 gatacgttgc tcatcgtaca accggtgagt aatggcccgt ccgaaaaggt aggtatcctg 360
 gcaggagacc gtatcatcgc ggtgaatgac acagccatag caggcgtaaa aatgggaaca 420
 gaagaaatca tgggacgcct gcggggcccc aaagattcga aagtaaacct gaccattatc 480
 cgagaggtg tgaaagaacc gcttttattt aatgtaaaac gagataaaat tccaatcctc 540
 agcctggatg ctgcttatat gattcagcct aaaataggat acatccgtat caaccgtttt 600
 ggagcaacta ccgccgaaga gtttctaaaa gccctgaaag agttacagaa aaaagggatg 660
 aaagacctga ttctggacct gcaaggcaac ggaggtggtt atctgaatgc cgccatcgat 720
 ctggcaaacg agttcctggg acaaaaaaaaa ctgattgtct acacagaaag accttctgca 780
 caacgcaatg aagtnttttg ccaaggcaac ggaaacttcc gtaacggacg tctggtggaa 840
 ttggtagaca aatattcgct ttgggcagtg aaaattggga caggtgccat tcaagattgg 900
 gaacaaagga atggtgggta g 921

<210> 2170

<211> 627

<212> DNA

<213> B.fragilis

<400> 2170
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 gtaacaggtg ttgttatttc tgaagaagac gggcaaccag ttgttgagc ctctgtattg 180
 gctaaaggca ccactgtagg tgttattact gatgtagatg gtaaatctac attatctggt 240
 ataccaagtt ctgcaaagac tttgcagatt tcatatattg gtatgcagac cgctgaggtg 300

gcaattgcac	ctaattattag	agtaatatatta	aaaacagact	caaaagcact	tgacgaggtt	360
gtggtagtgt	cttacggaac	acaaagtgtc	cgtacgggtga	ccgcatctgt	atctactgta	420
agagcggatg	ctttgaaaga	tgtgccaaagt	gtaagttttg	atcagatgct	tcagggacgt	480
gcgtcaggtg	ttagttatcac	cactccgtca	gcaggtgtag	ggcaggcccc	gattgtgcgg	540
gtacgtggtg	tgaactcgat	tacttccggt	acttctcctc	tgtatgttgt	cgatgtcttc	600
accgggggtg	caatgattgc	tcgtggg				627

<210> 2171

<211> 1197

<212> DNA

<213> B.fragilis

<400> 2171

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ctgaataaaa	agggtatggc	attagtacag	gttgaggcct	atttaaacag	aaaaaagaaa	120
tattttctcta	ccaaagttta	cttgagttccc	gatcaatggg	attttaagaa	gagaatgggt	180
aagaaccatc	ctaattgcaga	tgctatcaat	cacatgtctt	acgagtttat	ggcagaaata	240
gagaagaaag	agttgggatt	gtggcaacag	gggaaacaga	tttcattgga	ttcattaaag	300
aattctatgg	aaaatcaaga	cgacagcact	tcattttattg	cattttttccg	caacgaaata	360
gcaaaatctt	cattgaagga	aagtacaaaa	cgcaatcatc	tctcaacatt	agaattatta	420
aggagttata	agaaggatgt	gtcattttct	gaattgactt	ttgaatttat	atcctcattt	480
gatcactatc	ttcagcaaaa	aggatatcat	actaatacaa	ttgcgaaaca	catgaaacat	540
ctaaagcgtc	atattaatgt	agccataaat	aaagaatata	tggagatata	gaaatatgcc	600
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ttaggaaaga	ttgaaagtct	ggaattgggg	ggacgggttca	ctaaactgga	aaagaccaa	720
gatgctttcc	tcttttgttg	ttatgcagga	ttacgatatt	ctgacttcac	caacttatcc	780
cctgaaaaca	tagtgaaaat	gcatcaagaa	acttggttta	tttataaatc	tgtgaaaacg	840
aacacggaag	tacgtcttcc	gcttttatctt	ttatttgagg	ggaaaggaat	agaagtcttg	900
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aaggagctat	tgatcatagc	aaaattatca	gggctaaata	aacgtatttc	gttccatacc	1020
gctcgccata	ccaatgccac	attattaata	tacagtggag	tcaatattac	tactgtacaa	1080
aagctattgg	gacataaaag	tgtgaaaaca	acacagggtt	atactaatat	aatggacata	1140
actattgtaa	gagacttaga	aaagtctaaa	aataatcgca	aagtatctta	tatgtaa	1197

<210> 2172

<211> 471

<212> DNA

<213> B.fragilis

<400> 2172

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gctgtaggtt	gtacaaatgc	gaagaaagcc	gatgtatctg	cggcaggcag	cgataccaca	120
caagtgatag	atatgcatac	tgccgaaacc	tctctcgatt	actatggagt	ttacaaaggt	180
acggttccgg	ctgccgattg	tccgggcata	gaactgaccc	tgacattgaa	gaaggatcgc	240
acctatacgt	atcattgggc	ttatattgac	cgtaaagatg	ccgatttcga	tgaaaccggt	300
acgtttacgg	tgaaggataa	tctgcttacg	cttactgaaa	aaggaggcga	agtgtcttac	360
ttcaaagtgc	aggaaggcag	cctgggtgatg	ctgaacaatg	agaaacagcc	tgctaccggt	420
actttggccg	atgcctatgt	attaaagcag	gaagaggtgt	tcctcgattg	a	471

<210> 2173

<211> 2217

<212> DNA

<213> B.fragilis

<400> 2173

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gcggttatgt	tgctcctttt	cggggcgctt	atttacatgg	ctatcgagga	gggagatcgt	120
ttttcacacc	atgcggtagc	atcgtcaact	gtcgcagaag	acactccttt	cactatgttt	180
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gctgtcctgc	tgatggtaag	gcttttcggc	tttctgttca	agcacatcgg	gcagcccggg	300
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gaggtgttcc	gcgatttgcc	ttcactgttg	gtcatccgga	ggcctaagaa	gggttga	2160
						2217

<210> 2174

<211> 354

<212> DNA

<213> B.fragilis

<400> 2174

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gcgaaactag	aaagcgagct	tgccgaccgt	tctctccaac	aggccgagga	aaacaggcgt	180
gtcagcaaaa	accaatatga	agtggtgattg	gaaacccttt	ccgaccatct	ggaaggacaa	240
gctttatggc	aacaggcata	cgaaacgaaa	gtgaatgcac	atttccagct	ttatctgaat	300
tatgtggcct	atttgaaagc	ggcaggtata	ttatataata	agattaattt	ataa	354

<210> 2175

<211> 546

<212> DNA

<213> B.fragilis

<400> 2175

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tcaatcatgg	agaaatttga	ctccatgctt	tcaccggtta	tcgactcaac	actgggtcag	120
agatgcagca	gtatcttcgg	atatcagttc	agcgagatag	tccgttcgct	gatgagcgtt	180
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tatcatccta	cccttcgtac	atgcagctct	gataccatcc	tcagagccat	caaggaactg	300
acacaggaaa	acatctccta	tacttccgac	caaggcaaga	cctatgattt	caatactgca	360

gacaaactca	acacattgct	tataaacgct	ttggtttcta	caggcgagtt	gaaggaaatt	420
gaggaatcag	atgttgactt	tgaccatcag	ttccttgaaa	cggagaagta	tgatgcaaaa	480
ccgacctaca	aaaagttcct	cggctacagg	cctggcggtat	atgttatcgg	tgacaagata	540
gtttat						546

<210> 2176

<211> 252

<212> DNA

<213> B.fragilis

<400> 2176

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
tcagcgagat	ag					252

<210> 2177

<211> 1077

<212> DNA

<213> B.fragilis

<400> 2177

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gcttcctata	cggcaggagt	ctggtaccgc	cgttcggact	tcgacgggggt	ggcacgtacc	180
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<210> 2178

<211> 1209

<212> DNA

<213> B.fragilis

<400> 2178

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gaaggcggac	aatactccgg	actgggtgga	gcaggaattg	ccttgcaaag	ctacaacttc	180
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gttctctccc	tgggagtgaa	atacagcgac	cagcttcac	tgccaacgg	catgcaacgg	1140
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atccaataa						1209

<210> 2179

<211> 1401

<212> DNA

<213> B.fragilis

<400> 2179

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aatgccgact	acagattcga	ctccattacc	atccggttct	attcatcggg	taactatctg	420
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gacgaagggt	atctgtacac	tacttcgaag	gtgtcctatc	actccactcc	cctggcttcc	540
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gaatggggag	tcgagtgggt	cgaacatttt	caggccgggt	cacgtgagat	ggagtcgcaa	660
gagtacttcc	gcgactattt	caaaggtatc	gcgtttatc	ccgaagaagg	gggaaattgt	720
gtcaacgggt	ttatggtgaa	cgactcaagc	ttatgcatca	ctctctatta	tcacagacg	780
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caggtcagtt	gtgaccgcag	ccggaccgca	ctctcctctt	tgcaaagtgg	actcaacaac	900
gggcttcctt	cagaaaaatc	ggagcaccag	tcctatctgc	aagggttgac	cggcatgtat	960
atcaatattg	attttccatt	tctcaatgac	ctgcgtgccg	aaggcaggct	ggtgaccatc	1020
gaaagcgccc	tgtccgggct	atatccggta	aaaggaaact	atggcaaaca	gtatcccctt	1080
cccgaatcgc	tgacactgta	tacagccgat	gaaaacaatg	tgacggaaga	tgtagtact	1140
gatatctcag	gcagttccgt	acaaaccgga	agcctgggtg	cagatgaaat	gatgggagaa	1200
gatacctatt	actcttttca	tatcacctct	ttctctgcaa	gcaatctggg	aacggttagga	1260
tacaaccgga	agattcttca	actgatgctc	ccggacaact	tattcttcac	taccctgaac	1320
ggagtcgtat	tcgggggatgc	cggacatccg	gacagcaatc	ccgtgaaact	aaccctactt	1380
tataaaacat	ataacccatg	a				1401

<210> 2180

<211> 264

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (27), (44), (46), (159)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2180

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gaaccggaga	ttctgtctca	gtcgtatgat	atggatgcna	gcatgacgct	tcgtatccgg	180
cagtcggcaa	tgccccgttt	aagggtcccg	ctggagaaag	tgagactgc	ccgcattaca	240
gatgaacagg	aaggaaatgg	atag				264

<210> 2181
 <211> 1260
 <212> DNA
 <213> B.fragilis

<400> 2181

tctgcagttc	ttatggcaac	aataaaacca	tttaaaggca	tccgtcctcc	gcaggacttg	60
gtagaacagg	tcgcttcacg	tccgtatgac	gtgctgaatt	cagaagaggc	tcgtgcagaa	120
gctgccggga	acgataaatc	attgtaccac	atcattaaac	cggaaataga	ctttcccgtc	180
gggacagatg	aacatgatga	gaagggtgat	gcgaaaagcg	cagagaattt	ccgtctgttc	240
cgtgataaag	gatggctggg	gcaggatgac	aaagagaatt	attatatcta	tgcccagacc	300
atgaatggca	agacacagta	tgggctgggt	gtgggtgctt	acgtgcccga	ttatatgaac	360
ggtgtcatca	aaaagcacga	actcaccg	cgtgacaagg	aagaagaccg	catgaagcat	420
gtccgtgtga	acaatgccaa	catcgaaccg	gtgttctttg	cttatcccga	caatgcggtg	480
ctcgatgcca	ttatccgcaa	gtatacggct	caaaagccgg	tatacgattt	tattgctccc	540
ggtgacggat	tcggacacac	tttctgggtg	atcgacaaca	gcgaagacat	tgctgtcatc	600
accaaggagt	ttgctgccat	gccggcgctt	tatatcgccg	acgggcatca	tcgttcgggt	660
gccgctgccc	tggtaggggc	cgaaaaggca	aagcagaatc	ctaatacatcg	cggagacgaa	720
gaatacaact	atttcatggc	cgtatgtttc	cccgccaaac	agttgactat	tatcgattac	780
aaccgggtgg	tgaaagatct	caatggcttg	acgcctgccg	aatttctgac	cgcccttgga	840
aagaattttg	agatcgaa	gaaaggtaaa	gagatttata	aaccaaatgc	gttgcataac	900
tttgcgctct	atctggatgg	caaatggat	agcctgacag	ccaaaccggg	tacttatgac	960
gataatgatc	ctataggtgt	attggatgtg	accatctctt	ccaacctgat	tctggacgaa	1020
attctgggaa	tcaaggatct	gcgttcggat	cgccggattg	actttgtagg	gggaatccgc	1080
ggcttggg	aattgagcag	acgggttgac	agcggcgaaa	tgaaagtggc	tttggccctt	1140
tatcctgttt	caatgaagca	attgatggat	attgccgata	caggaaacat	tatgcctccg	1200
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<210> 2182
 <211> 636
 <212> DNA
 <213> B.fragilis

<400> 2182

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ctggaaccgg	ctatcgtgat	gggtctttcg	gtaactgtga	ttacggcttt	ctcaaaccgtc	180
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gtagtacccg	cattggtaac	tatagtaagt	gaggtgctga	aagcgtttgc	atacgatgta	300
agcgtacagc	tttcgggtata	cgtaggctctg	atcattacaa	actgtatcct	gatgggacgc	360
ctcgaagcgt	ttgccatggc	aaacggctccg	tgggagtcac	tcctcgacgg	tgtaggtaac	420
ggtctgggat	atgccaagat	cctgatcatc	gtggctttct	tccgcgagtt	gctcggatcg	480
ggcacattgc	tcaacttccg	tattatccct	gagtcattct	ataagatggg	ttacatcaac	540
aatggtttga	tggtgatgcc	gccgatggca	ctgatcatct	gtgcatgtat	catctgggat	600
cagcgcagcc	gctgcaaaga	actccaggaa	aagtaa			636

<210> 2183
 <211> 495
 <212> DNA
 <213> B.fragilis

<400> 2183

tttgtggcga	attcgttttg	tgttccggac	tattcaaata	tgtacgtttt	tccgtatctt	60
tgccgccgaa	gtaattatta	tcaggaaaca	gatatgggac	gaaaagaaga	atacaaatgt	120
cagaacgaac	aattcatgca	gacattacgc	accgaagcgg	atgtacacga	attgccatgc	180
ggcatattat	ataaggtttt	ggagggaagg	accggcgag	ccacgccccg	ttccaacagt	240
gtggtgtcgg	ttcattacaa	gggcactctt	atcaatggac	gtgaatttga	taattcctgg	300
aagcggaact	gtcccgaagc	ttttcgtctg	aacgaggtta	tcgaaggatg	gcagattgct	360
ctgcaaaaga	tgccgggtggg	agatcactgg	atcgtctaca	tcccttataa	tatgggctat	420

ggcacacgta ccagtggccc gattccggct ttttcaactt tgatttttcca ggtacaatta 480
ctgggtatag cttga 495

<210> 2184
<211> 1290
<212> DNA
<213> B.fragilis

<400> 2184
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gtgatcatcc tgcttgtcat tatactgctc gttgcgaaga gctatctttc tccttcggggc 120
gagggttacga ttacgatgaa tggagagcaa caactgaaaa catctcaggg tggtactctg 180
ctgggtacgt tgtctgccaa caatgtgttc ctttcatcgg cttgtggtgg taagggttca 240
tgcggacagt gccgttgcca ggtgctcgaa ggcggtggcg agattttgcc taccgaaacc 300
ggtttcttct ctcgtaaaga acaggccgat cactggcgcc tcggatgcca ggtgaagggtg 360
aaacaggata tgtctatcaa gatcgacgag tctatcctgg gtgtgaaaga gtgggagtg 420
gaggtgatct cgaacaagaa cgtggctacg tttatcaaag agtttatcgt ggctctgcct 480
ccgggcgaac acatggactt tgtgccgggt tcgtatgccc agatcaagat tcctaccttc 540
tcgatggatt atgataagga catcgataag agcctgatcg gtgacgaata tcttccggca 600
tgggagaaat tcgggtctgct cggcctgaag tgccgcaacg acgaaccgac catccgtgct 660
tattctatgg ccaactatcc ggctgagggt gaccgcatca tgctgactgt acgtatcgct 720
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gcttcttctt acatctttac gctgaagccg ggtgacaagg tgaccatgag tggaccttac 840
ggtgacttcc acccgattct ggattcgaag aacgaaatga tgtggatcgg tgggtggtgca 900
ggtatggctc cgttgcgctg ccagattatg cacttgacca agacgctgca tatcactgac 960
cgtacgatga actacttcta cggtgcccg gactgaacg aggtgttcta tctggaagac 1020
ttcctgcaga ttgagaaaaga cttcccgaac ttcaagttcc acctggcact cgaccgtccg 1080
gacctgctg cagacgcagc cgggtgtgaag tatacggcag gtttcgtaca caacgtgatt 1140
tacgaaactt atctgaagaa ccatgaagct ccggaagaca tcgaatacta catgtgtggt 1200
cccggcccga tgagtaaagc tgtcgagaag atgctcgacg atctcggtgt tccgtctaag 1260
aacttgatgt tcgataactt cgggtggataa 1290

<210> 2185
<211> 456
<212> DNA
<213> B.fragilis

<400> 2185
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tgatgaaagt accggcccat tgcaatgatc cagcgtgaag agcatgatgg caccggcgt 180
tactatattg aagaagaggt catccggatg gaagggtgaga aggtggagaa aagtattccc 240
cgtgaggact ttgcaacagt ggcgacctg attctggacg cgattaaaaa ttcttcggcg 300
gatgaagtta cgtcacccga cggggtggag gagttcctgg acgaggcagg tatctttgat 360
ctggaagccc ggacggagga ccgtaccgac ttctcgattg ctttctggca tcctgaggct 420
ccgttggcgg gttgtcttcg ccacgggcca ggggag 456

<210> 2186
<211> 1416
<212> DNA
<213> B.fragilis

<400> 2186
tccttcggag atcatcataa aagaaactgc tttcgggttg tccggaagca gttttttttt 60
atctttgtgt cattattcaa aaatgtggaa aaaacaatga atggtttgaa ggatatactc 120
gaaaggttga aaatagaaca actcaatccg atgcaggaag cgtctgttga ggcatttgat 180
aaaggtggcg aagatttgat attactttcg cccacagggt cgggcaagac cctggccttt 240
ctgttgccgc tggtcggcag tctgaaggcc gacgtgaaag gagtgcaggc cgtggtgctg 300
gtgccatcac gtgagttggc attgcagata gagcaagtgt tcaaggcgat ggggacggaa 360

ttcaaggcga	tgagttgcta	tggcggacgt	ccggcgatgg	aagagcaccg	tacgatgaaa	420
ggaatgcagc	cggcggttat	catcggtacg	cccggccgta	tgaatgacca	tctctccaag	480
cagaacttcg	atgcaagcac	agtgaagtctg	ttggtgatcg	atgaatttga	taaagtgcctg	540
gagtttgggt	ttcaggaaga	gatggcaacg	gttatcggaac	agttgcccga	cttgaaacgg	600
cgttttctga	cttcggcaac	agatgcggaa	gagattccgc	aatttacagg	actgaaccgt	660
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agcagttcga	gcattgtttt	ctgtaaccac	agggatgcgg	tggaccgtgt	gagtgcctta	840
ctaacggaaa	aaggagtttc	caatgaacgc	tttcatggag	gtatggagca	accggatcgg	900
gaacgggcac	tgtataagtt	ccgtaatggc	agctgtccgg	tgctggtgtc	tacggacctg	960
gctgcccgcg	gacttgatat	cccggagggtg	gagcatatca	tccattatca	tttgccgggtg	1020
aacgaagaag	cctttaccga	ccgcaatggc	cgtactgccc	gttgggatgc	gacgggtact	1080
tcttatctga	tactgaatcc	ggaggaacat	gtgccggatt	atataccttc	ggagcttgag	1140
atcttcgact	tgccggagaa	tacaccccg	ccggctaaac	ctcagtgggt	gactatttat	1200
ataggtaaag	ggaagaagga	caaattgagc	aagatcgaca	tagccgggtt	cctttataaa	1260
aaaggaaatc	tggcacgtga	ggatgtcgga	gcaatcgacg	tgaaagatca	ttatgccttt	1320
gttgccgtgc	ggcgcccaa	gatgaagcaa	ttgctgactc	tgatccgtgg	cgagaagatc	1380
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<210> 2187

<211> 552

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (421), (422), (491), (508), (510)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2187

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gataacctata	agaccatcac	tgaagtctcg	gagggaaacat	ataccgagaa	acgaagcaaa	180
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cggaagaatt	ttcgtgccaa	cgataacgga	gagccgctcg	gtactgccgg	caaaccgatt	360
ctgggacaga	tcaactcgac	cgaattgacg	gatatactga	ttatgtgggt	tcgttattcg	420
nnagggatca	agttgggcac	tagtggactg	attgtggcct	atagggccgc	cgcgcgaggc	480
ccatcgctgc	ntgcaccatg	ggagaganan	ctgtggacga	ggaagtaccc	gtacttttcg	540
agtatccttt	aa					552

<210> 2188

<211> 645

<212> DNA

<213> B.fragilis

<400> 2188

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gtgaaaactg	ctgtaggact	gggtatcgcc	gtaactttcg	tattggtgg	tacgttgccg	180
gtcaactact	tgcttcaaac	taaggtgctg	gctgccaatg	cgatcattga	aggtgttgac	240
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gaaatggtgg	tggaaacgctt	cagcccttcg	ctctacgctt	cactgggtat	cttccttccg	360
ctgatcgccg	ttaactgtgc	catcatgggt	gcttactgt	tcattgcagca	gagaatcacg	420
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gcttactctg	atgttcccgc	tccgctgaaa	ggctctgggca	ttacgtttat	cacagtagga	600
ctgatggcta	tggcctttat	gtgtttctct	ggattgaaat	tataa		645

121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

<210> 2189
 <211> 255
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (1), (2)
 <223> Identity of nucleotide sequences at the above locations are unknown.

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 gagaaaaacg gtaagggtgac agaccctgct tatcaggttg acggtatttc ggggtggtaca 180
 atcacttcga aagggtgtgga cgccatgatc aaagcatgtc tgagccagta cgataaattt 240
 ttaactaata attaa 255

<210> 2190
 <211> 1098
 <212> DNA
 <213> B.fragilis

<400> 2190
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 tccattctcc ctgcggaagt aatagaagaa acagcgaaag ccattctcga tttcaacgggt 120
 tcagggtcttt ctgtgttgga agtcagccat cgtggcaagg attttcaggc agttatggat 180
 gaagccgttg ctttgtttta ggaaatactt aacatccccg aagggtattc ggtacttttc 240
 ctgggagggtg gtgccagtat gcagttctgc atgggtgcctt acaacttcct tgagaagaag 300
 gcagcttacc tgaacaccgg tgtttgggct aaaaaagcga tgaaagaggc gaaaggcttt 360
 ggcgaagtgg ttgaggtagc ttcttcggct gatgcgaact atacgtttat ccctaaagac 420
 tttaccatac ctgctgatgc tgattatttc catgtgacca ccaacaatac gatttatggt 480
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 aatctggctc cctccggcgt tacattcgtc atagtaaaaag acgatgcggg aggcaagggtg 660
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 aacacacctc ccgtattgcc tatctattcc gccatgcaga ctttgcgctg gatcaaggct 780
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 aatatctgct ttgtgatggc accggaatat aaggatctgg aagccgattt cctgaagttc 960
 gctacggata aaggaatgtc cggcatcaaa gggcaccgct cgggtgggtgg cttccgtgca 1020
 tcttgctaca atgcaatgcc gaaagagagc gtacaggcat tgattgactg catgcaggaa 1080
 tttgagaaac ttcattaa 1098

<210> 2191
 <211> 984
 <212> DNA
 <213> B.fragilis

<400> 2191
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 gaaatgaaaa tacttggttc aaccgaaaag ccatattgcca agattgcggg ggatggcatc 120
 aagaaagaaa tagaaggagc cggatttgaa ttggctctgc ttgagaaata tacagataaa 180
 gcccaactgc ttgacgcagt gaaagatgcg aatgccatta ttatccgtag tgacatcatc 240
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 <211> 528
 <212> DNA
 <213> B.fragilis

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 <212> DNA
 <213> B.fragilis

<400> 2197						
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aatgaaaaga	aaacagagcg	gcccataacc	cttgatccgt	taaggattaa	tctgacttac	180
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cactatgtaa	agcgtattcc	tccagtagaa	aagtcctgca	ttttccacat	ccaaagcagc	300
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 <211> 252
 <212> DNA
 <213> B.fragilis

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
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<210> 2199
 <211> 342
 <212> DNA
 <213> B.fragilis

<400> 2199						
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cggtttcgtt	ttccttcggg	tactgtcatc	agattattac	cagattatat	aagtggaaat	240
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 gggcccgtct
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 aatggagaat
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 atgagcatcc
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 ttcactgtct
 cctttaccca
 aacctttata
 ctcttttcgga
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 aatttatgtg
 gttgccggtg
 acgaaacact
 ggtccgaatg
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<210> 2200
 <211> 486
 <212> DNA
 <213> B.fragilis

<400> 2200
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 ggcagattgc cgtccaattt taattatcgg atgatggagc agatccgtct ggaagcggaa 240
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 ttgttgggag tgggagtata tacgcttggt ttcaaattgg aattcaattt caaggagtac 360
 ttgtccggta tggatttttc tcatgctgat tcttcctgtg tggctttcta tagctatatt 420
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<210> 2201
 <211> 597
 <212> DNA
 <213> B.fragilis

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 accgaattag tacagttggg tgggaaacta ttgcgcggtt gtgcctcatg ttatacctgt 180
 ttcaagacaa aggacgggaa atgtgcgatt aagaccgatc caatgaatga gttcatccaa 240
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 gccgaaatga aggcatttat ggatcgggtg ggactgacca cgatcgggtca gggacgtaca 360
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 tggaatttcg gtattgggtga aatgccggga gaggtttttg atgacgcaga agggttgaga 540
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<210> 2202
 <211> 1020
 <212> DNA
 <213> B.fragilis

<400> 2202
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 aatggaacag gcagcaatgt cattgccctg caattgatga ctgcctcta caactctatc 240
 ctttgtgccg aaactgcgca catttatgtg gatgaatgtg gctctccggt gaagatgacc 300
 ggttgtcaga tccgtcctat cgcactccc gacggaaaac tgactccgca actgatcaca 360
 ccctatctgc atggctttgc cgaccagcat cattcccagc cgggggcat ttatctttcg 420
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 ggtggaacca agaacgggct gatgatggga gagtgtgtga tcgtattcga tgattcgttg 660
 aagtcggaag cgcgtttcat acgcaagcaa tcggctcagt tggcatccaa aatgcgttat 720
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 atgctgcaaa cttattttct ctatctctgg aatgaggaag ccgacgaaat acgtctggtc 960
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<210> 2203

<211> 2211
 <212> DNA
 <213> B.fragilis

<400> 2203

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 <212> DNA
 <213> B.fragilis

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 <211> 441
 <212> DNA
 <213> B.fragilis

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<210> 2206
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 <212> DNA
 <213> B.fragilis

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270

<213> B.fragilis

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273

<213> B.fragilis

60
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180
213

<213> B.fragilis

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 <211> 789
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 <213> B.fragilis

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<210> 2212
 <211> 1191
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 <212> DNA
 <213> B.fragilis

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<211> 2052

<212> DNA

<213> B.fragilis

<400> 2217

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<211> 1605

<212> DNA

<213> B.fragilis

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1605

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<212> DNA

<213> B.fragilis

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<211> 903

<212> DNA

<213> B.fragilis

<400> 2220

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<210> 2221

<211> 1566

<212> DNA

<213> B.fragilis

<400> 2221

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<210> 2222

<211> 192

<212> DNA

<213> B. fragilis

<220>

<221> unsure

<222> (169)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2222

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ccaaaaatac	aaattaaatc	tgagaaactc	acaacctttt	ggagaattnt	tttcattcat	180
ggaagaaatt	ga					192

<210> 2223

<211> 942

<212> DNA

<213> B. fragilis

<400> 2223

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<210> 2224

<211> 300

<212> DNA

<213> B.fragilis

<400> 2224

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tacggaattc	tgtttttcca	ctccgcgcac	ctgcatacac	atatgcttgg	cttccaccac	180
gaccattacg	cccagcggat	tcaacgtttc	ctgaatacac	tctttaattt	gcagcgtcat	240
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<210> 2225

<211> 588

<212> DNA

<213> B.fragilis

<400> 2225

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aaggggagtcg	agtttcatat	ctctaaggct	accaaagagt	tgcgtgttgc	tttaaaagat	540
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<210> 2226

<211> 3387

<212> DNA

<213> B.fragilis

<400> 2226

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<210> 2227

<211> 1482

<212> DNA

<213> B. fragilis

<400> 2227

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aaaccgggtt	atccgttgta	tttcccaatc	aattataatg	atatggtctt	aaatgacaaa	1440
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<210> 2228

<211> 600

<212> DNA

<213> B.fragilis

<400> 2228

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tgtatgcaga	tgcgcggagt	ggaaaaacag	aattccgtaa	ctactacttc	cgactttaca	540
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<210> 2229

<211> 861

<212> DNA

<213> B.fragilis

<400> 2229

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<210> 2230

<211> 1629

<212> DNA

<213> B.fragilis

<400> 2230

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<210> 2231

<211> 402

<212> DNA

<213> B.fragilis

<400> 2231

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atagcccttt	atthttgtcag	ggcgggatat	ggcatgtttc	gcagccgac	ctgggggaatc	180
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tggtgtgggt	ggcattccga	ccgacgtttt	ttacctgtcg	aactcacttt	ctttcttttt	300
ttccaactac	attactttcc	aaagggcttt	tgthttttct	ttctctgatga	aaggaaagag	360
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<210> 2232

<211> 606

<212> DNA

<213> B.fragilis

<400> 2232

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gaccgtggtc	tggcaagaca	gttgccccca	cctcctgaaa	aggatcaggt	tgataatgac	180
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aatccatata	acgatgaaaa	attaccggaa	aaacacgcta	aagatgtgcc	tttcttttgt	360
aatgtcatgg	ttacggagaa	tcattgaatc	tctttgcaga	gtgaccgtgg	atcttcttat	420
caggcttatt	ttgatgttca	gaatgagctg	gttgctgctt	ataacgagtt	aagagatgaa	480
ttggctcagg	aaaagtggca	gaagaattat	gctgatttaa	atgaagatca	gcagaaggct	540
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aattaa						606

<210> 2233
 <211> 552
 <212> DNA
 <213> B.fragilis

<400> 2233

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ttctggctgc	ccaatgacct	gaaacgtttc	aaagcgttga	ccacaggaaa	cacaatcatc	180
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gccgctttgg	aaagctgtca	agccgaagaa	aaagtataca	tcatcggagg	ggcaagcgtc	360
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gaagttcatc	ctgccgatga	aaaacatctc	tgctcgtatg	ctttttaga	ttacgtacgg	540
gagatcgatt	aa					552

<210> 2234
 <211> 1218
 <212> DNA
 <213> B.fragilis

<400> 2234

tatgacatgg	caaaaatata	aattaaatct	gagaaactca	caccttttgg	aggaattttt	60
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agatgcagca	gtatcttcgg	atatcagttc	agcgagatag	tccgttcgct	gatgagcgtt	180
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tatcatccta	cccttcgtac	atgcagctct	gataccatcc	tcagagccat	caagggaactg	300
acacaggaaa	acatctccta	tacttccgac	caaggcaaga	cctatgattt	caatactgca	360
gacaaactca	acacattgct	tataaacgct	ttggtttcta	caggcgagtt	gaaggaaatt	420
gaggaatacg	atgttgactt	tgaccatcag	ttccttgaaa	cggagaagta	tgatgcaaaa	480
ccgacctaca	aaaagttcct	cggctacagg	cctggcgtat	atggtatcgg	tgacaagata	540
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ctgcttactg	cattgatata	caattttctc	aagaccatca	tgagcaggct	tgacaccaag	1140
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<210> 2235
 <211> 876
 <212> DNA
 <213> B.fragilis

<400> 2235

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gactacttca	cgaacaaaac	cctacgcata	gattatctat	ttacggggaa	tgcggaacag	180
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gccaaagagg	tcaccaaagg	atgttgagaat	acttatctcc	tcccctatcc	cataaagccg	420
gccgaggtag	aaatcacatt	acgcaataac	aaacgcgaag	tcagtgccaa	cctgaagcac	480

gtcgttaagc	ccgacgacat	tctgatacac	aaaaaagggc	tcacacacat	cactccgcac	540
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gggtatacca	caagtgaat	ggaaactttc	tataaagatg	ccgccatcgc	atgcgaagcc	660
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agtctttcgg	cagacagtgg	ggtcagcgct	cccaaacagg	gagcatggaa	gcactcggcc	780
ttccggttcc	cacttcgata	ctttctattc	cgaccgctat	ctgactacca	gccgggtaaa	840
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<210> 2236

<211> 267

<212> DNA

<213> B.fragilis

<400> 2236

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cgggaagaga	aagcacgctg	taattgcggt	catagtaatt	attgcattgg	gaggatgtac	180
acgatcgaaa	tggcttgcca	tcggcatctg	acagaagaac	ttcctctttg	cctgaaaaaa	240
gaaatagaac	agttggagaa	taaataga				267

<210> 2237

<211> 399

<212> DNA

<213> B.fragilis

<400> 2237

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tgcaattgga	aggctactcc	gatctgcgat	ccaaaatcat	acagattttc	ggcatcctca	180
ggagaagctc	cacctaaaat	agctccgatt	ttcaaactgg	cagccaacaa	aaccgccgtt	240
ttcaaacgga	tcattttccag	atactcctct	tcctttacat	cctcacggga	ctcaaaattc	300
atatccattt	gctgcccctc	acaaatttca	agtgtgtgtca	ggctgaacaa	atccatcact	360
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<210> 2238

<211> 816

<212> DNA

<213> B.fragilis

<400> 2238

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tcaatcattt	acgaactact	gtgggttcctc	aaaggagaca	cgaatgtgaa	atatctgcag	240
gaccacggcg	tacgcactcg	gaacgaatgg	gcggacggaa	caggagatct	gggacatgta	300
tatggatacc	agtggcggtc	gtggccaacc	tacgacggag	gatttatcga	ccagatcagc	360
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ctgcaggcag	gagactttat	ccacacactg	ggcgacgcac	atatctacct	gaaccacctg	660
gaacaggtga	aactccagct	cagccgggaa	ccgcgcccac	taccacaaat	gaagatcaat	720
cggacgtga	aaaacatctt	cgacttccaa	ttcgaggact	ttgaattagt	aaattatgat	780
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<210> 2239

<211> 573

<212> DNA

<213> B.fragilis

<400> 2239

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tttctccggg	agatcagttt	ggccgattcc	gagtttaatt	acttattgca	catgcagagc	180
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acgacgctgc	gggtgaagtt	tcccattttg	ccttttgatt	cgacggccga	ttatattaca	300
cggggagcca	ttatgttgaa	taccactgga	gaagagtgcg	cccctgacat	ttgtttgttt	360
aatcacattt	atagcgatag	tgttttttctc	ctgactcctg	atggattgaa	acttgacttt	420
attctgcgta	agggcaaata	tgcgcgtct	ttggaagatg	taaagcaatt	catgaaatgg	480
aatcaatatg	atccattcat	taaaggattg	tttatcctaa	aatccgcaac	tatcatccaa	540
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<210> 2240

<211> 252

<212> DNA

<213> B.fragilis

<400> 2240

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gtgttgcaaa	aagaaaacaa	gcaaaactct	aatatgacat	ggcaaaaata	caaattaaat	120
ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 2241

<211> 1581

<212> DNA

<213> B.fragilis

<400> 2241

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gttttttcctt	tcctgatgaa	aggaaagagc	aagatgccgg	tactcattct	tttgatggga	180
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cccggagata	cccgctatta	ccttcctcaa	agaggcatgt	atcggtatgt	gacctctgcc	420
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<210> 2242
 <211> 846
 <212> DNA
 <213> B.fragilis

<400> 2242
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 ttgatccttc aggtattcta taactacatc cttgctaaaa tcgaagctct tacaagcgaa 780
 atggaagatt cttctatctc tttgcttgac atggtaatca aatataactt gaaatacaaa 840
 aaataa 846

<210> 2243
 <211> 468
 <212> DNA
 <213> B.fragilis

<400> 2243
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 gtttcattga aggttgagtt taagattccg caaggtagct agttggaaaa gcttgaaaaa 180
 aaatcttttg ttacgtttat ctacgtaggt aaaccgacag cagaatttcg taaaaaactg 240
 gggctctgaaa gccgtatcca gttgaatgat gcttatgctg aagttgacga gattcaggct 300
 tacgtgacta acgagcgctc aagtatgaaa gaggaagacc aaccctttat gactgtgtct 360
 ttgaaaattg accaggatac taagatgggt atcggtaccg atattaaaca ggctcttcgt 420
 caagcttatg cactgaaaat taactattct gcgagagctc gcgaataa 468

<210> 2244
 <211> 720
 <212> DNA
 <213> B.fragilis

<400> 2244
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 gcagacctcg aaggtaaaga aaccagtggt ctgctgatcg gttacgtggt ggtgctcgcc 120
 tttatattcg ttgctgtcga atggacggag cgtgatataa agatcgatac aagccaggcg 180
 gtagcccgaga ttgagtttga agaggaaatg attcctatta cacaacagga agaaaaaccg 240
 gccccacctc ctgtcgagggt tcccaaacag gctgaaatcc tgaagattgt tgatgacgag 300
 gctgatgtac aagaaacagc cattgcttca acagaggata ccggacagaa agtggaagta 360
 aaatatgtac cggttgaggt aaaagaagaa gaaccctcgg aacaagagat ttttgaagta 420
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 taccttgata aagaagctct tcgtgtggtt aagaccatgc ctaagtggaa gccgggtatg 660
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<210> 2245
 <211> 873
 <212> DNA

<213> B.fragilis

<400> 2245

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gctgaaacca	aatgccggga	gttggtgaaa	gaaacgggaa	atgaaaagat	agaggtatgg	180
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aagactcctg	tcgctttgtt	gatgaataac	gccggggacca	tggaaaccgg	attgcacatt	300
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tatacccgtc	ctgaccgaag	ggcacagcta	tgggaagaga	cggaacggat	tttgtcggaa	840
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<210> 2246

<211> 210

<212> DNA

<213> B.fragilis

<400> 2246

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gtgtatcgcg	ggttcgaatc	ccgctctctc	cgcaggaagt	ataaacaaga	gacgataagt	180
aaatacaata	ataataattt	aattaattaa				210

<210> 2247

<211> 477

<212> DNA

<213> B.fragilis

<400> 2247

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tacgacatgg	ataatcccgc	aaacacagat	gccttgctgt	acttgatgta	tgggtctgtt	180
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gtcgtagcat	ggtctatggg	tagtggtgaa	acactgacca	ttcaaggata	tgaggggaact	360
gataatgttc	ctttctgggt	aaaactgact	gatatgttcc	tttatagtat	ctacttctta	420
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<210> 2248

<211> 735

<212> DNA

<213> B.fragilis

<400> 2248

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cctgtttcac	tcaagacatt	gggagaagcc	cgtatatttc	tgtctaaatt	tgaaacggcg	180
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attcgtatgg	aaatcaaaga	atctcataag	gctttgtatg	gcttgcccgt	agataatttc	360
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ggggagcgga	aacgcacctc	tcaaggcggg	attccgattt	ataacccac	gattgctaaa	480

gtgaaagtgc	attatgatat	attcatggaa	ggatatgaaa	aacagaaaag	ccttcagtct	540
ctcaccaatc	gtagtttaga	gcaacttgca	tccatgcgtg	tgcaagccga	ccggttgatt	600
ctggatatct	ggaatcaggt	ggaagccaaa	ttccaggatg	tatcgcccaa	tgagaaacgc	660
ttggaaaaat	gtcgtgatta	tggtctgatt	tattattatc	ggaccggaga	aaaacagaat	720
aaggagattc	tttaa					735

<210> 2249

<211> 1044

<212> DNA

<213> B.fragilis

<400> 2249

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atccggttta	cacgtactcc	ggcaggtttg	tatgacctta	ttaaatatgt	tctttccatg	180
ggaggaaaac	gtattcggcc	ggttcttatg	ctaattggcat	acaacctcta	caaggaggat	240
gtgtcctcta	tttatgacct	tgctacggct	attgaagttt	atcataacta	tactcttttg	300
catgacgatt	tgatggatcg	ggctgatatg	cgccgcggca	agacaactgt	ccataaagta	360
tggaatgaca	atactgcgat	tttgtcagga	gacgctatgc	tggtgctggc	ctatcagtat	420
atggctgcca	gttcatcgga	acacctcaaa	gaagtgatgg	atttggtcag	cctgacagca	480
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gaagaggagt	atctggaaat	gatccgtttg	aaaacggcgg	ttttgttggc	tgccagtttg	600
aaaatcggag	ctatttttagg	tggagcttct	cctgaggatg	ccgaaaatct	gtatgatttt	660
ggcatgcaga	tcggagtagc	cttccaattg	caggatgatt	tgctggatgt	atatggtgat	720
cctgctgtgt	ttggtaaaaa	catcgggtga	gacattctat	gcaataaaaa	gacgtatatg	780
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attggcatca	aggctgtttg	cgaaaacaag	atgctgtagt	attacactcg	tgcgatgaca	960
agcctgggcg	ccgtgtctgt	cattgaggat	aagaagagtg	agctgaaaaa	gttgatgaag	1020
catttaattgt	accgcgagat	gtaa				1044

<210> 2250

<211> 1374

<212> DNA

<213> B.fragilis

<400> 2250

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tccgaggcaa	tgaaggattg	tacccggatt	gataacgaat	tgtttccaaa	atttgacggt	120
aaacgggggc	ttcgcaatga	agacggtaca	ggtgtatttg	tcggattgac	taagattggt	180
aatgtcgtag	gatacgaacg	aatccccgga	ggtggtctga	agccgatccc	gggaaagtta	240
ttttaccgtg	gatatgacct	agaagattta	gcccacgcca	ttttaaaaga	aaaacgtttc	300
ggatttgaag	agggtggcta	cctgctgtta	tccggcagtt	tgcccagataa	ggaagaactg	360
gcttcgtttc	gcgagctgat	caatgataat	atgccttttg	agcagaagac	caagatgaat	420
atcatcgaac	ttgaaggaaa	caatattatg	aatattcttg	cgcgacagct	actcgagatg	480
tatcgtttcg	atcctaattcc	ggatgatact	tcacgtgaca	acctgatgcg	tcagagcatc	540
gatctgatct	cgaaattccc	gaccattatt	gcttatgctt	ttaacatggt	gcgtcatgcc	600
accttcgggc	gttcgtttaca	cattcgatcat	ccgcaggaga	atctgtcgat	tgccgaaaac	660
tttctctata	tgctgaaacg	cgattatacc	gagctggatg	cgcgtaactc	cgaccttttg	720
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gaacggggagt	ttgcttttct	tgaacttttg	gaagaacgtg	ctatcgctac	tttcggtaag	1140
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gagatgattg	gcctgccgca	ggaaatctat	accccttgtg	ttgccatggc	gcgtatcgtg	1260
ggttggtgtg	cccatcgcaa	cgaagagttg	aattttgaag	gtaaacgtat	cattcgctccg	1320

gcttataaaa atgtgttggg agaagaacaa tatgtaccgt taaagaaacg gtaa

1374

<210> 2251

<211> 483

<212> DNA

<213> B.fragilis

<400> 2251

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attcatcaac	gcatacagaa	gttgactaat	ctgggtatat	tgaaagggtc	ggagtatgtc	180
atcgaccggg	agaagatcgg	gtacgagaca	tgtgcttata	ttgggattta	tctgaaagat	240
cctgagtcgt	tcgattctgt	aaccaaggct	ttggaagcaa	taccggaagt	ggtggaatgt	300
catttcacta	ccgggaaata	tgatatgttt	atcaagatat	acgcaaggaa	caatcaccat	360
cttttgagt	tgattcatga	taaactccag	ccgttgggat	tggctcgcac	cgagacgctg	420
atttcattcc	atgaagccat	caagcggcag	atgccgatta	tggtagatac	ggacgaggat	480
taa						483

<210> 2252

<211> 954

<212> DNA

<213> B.fragilis

<400> 2252

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aatcatacat	ttgtaatcat	tatggtaaaa	gtagaaatag	atgaagggtc	cggtttttgc	120
tttggagtgg	tcacagctat	ccacaaagcc	gaagaggaa	tcgcaaaagg	ggtaacactc	180
tattgcctgg	gagacattgt	acacaacagc	cgtgaagtgg	aacgcctgaa	agagatgggg	240
ctgattacca	tcaatcatga	agagttcaaa	caactccata	acgcaaagt	gcttttgcgt	300
gccatggcg	aaccacccga	aacctatata	attgccaaag	aaaataatat	cgaaatcatc	360
gatgccacgt	gtccggtggg	actccgcctg	caaaaacgaa	tcaaacaaga	gtatatgcag	420
gaggacctcg	acgaaaaaca	aatcgtaatt	tacggaaaga	acggacatgc	ggaagtctta	480
ggtctggtag	ggcagacaac	cggcaaagct	atttgtatag	aaaagctcga	cgaggctcgc	540
cggctggatt	tcagcaaaag	catacgcttg	tactcgcaga	caaccaatc	actggatgaa	600
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tcacacgatt	tgatcttctt	cgtcagtggt	aaaaaaagtt	caaatggcaa	aatgttatct	780
gaagaatgca	aaaaagtcaa	ccgaattcca	catttgatag	acagtgccga	cgaaattgac	840
gactctttac	taccgggtgt	caattctatc	ggtgtatgcg	gggtacatc	gactcctaaa	900
tggtgatg	aagaaatctc	tgaagctata	aaggcacaga	ttaaagaca	atga	954

<210> 2253

<211> 837

<212> DNA

<213> B.fragilis

<400> 2253

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aagggagtaa	acctgctgca	taacataatg	aaaaagataa	caattgcaat	tgatggcttt	180
tctctgtg	ggaaaagcac	catggctaaa	gatttagcca	aagaaatagg	atacatctac	240
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cacggtgata	caatcgatac	ggatgaatta	aaacgacgta	tcggcgacat	ccacatctct	360
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aacaaaatcc	gcacaaatga	ggtttcttct	aaagtaagcc	cgatcagtg	actcggtttt	480
gtccgggaag	cgatgggtgg	tcagcaacag	gaaatgggaa	aagccaagg	tattgttatg	540
gatggctg	acatcgggac	gaccgtattc	ccggatgcag	aattaaaaat	attcgttaacc	600
gcctccgccg	aaattcgtgc	ccaacgccgc	tatgacgaac	tgaaagccaa	gggtcaggaa	660
accggcttcg	aagagatact	ggaaaatgtg	aagcaacgtg	accacatcga	tcagacacgt	720

gaagtcagcc cattgaagaa agccgacgat gctttgctat tagacaacag ccatctcacc 780
atcgccgagc aaaaagagtg gctgatggca gaatatcaga aagcgataaa agcataa 837

<210> 2254

<211> 996

<212> DNA

<213> B.fragilis

<400> 2254

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gcaccgggaa	tgaacgctgc	tattcgtgca	gtaacgcgtg	cagcaatcta	caacggactg	120
caagtaaaaag	gtatatatag	aggatacaga	ggcttgggtg	caggagagat	caaggagttt	180
aagagccaga	atgtaagtaa	catcattcaa	ctgggaggaa	cgatcctgaa	gacagcacgt	240
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ggaatcgatg	cccttgtagt	gatcgggtgg	gacggttcgc	tgaccggagc	acgcatcttt	360
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ggcaccgaca	cgaccatcgg	atagcgtacg	gcgctgaaca	ctatttttga	tgctgtcgac	480
aaaatccgtg	acacagccac	ttctcacgaa	cgtctgttct	tcgttgaagt	gatgggacgt	540
gatgccgggt	tcctggcatt	gaacgggtgcg	attgcttccg	gagcagaagc	tgccatcatc	600
cccgaattca	gtacagaagt	cgaccaattg	gaagaattta	taaagagcgg	tttccgtaaa	660
tcaaaagaaca	gcagtatcgt	actggtagcc	gaaagcgaac	tcaccggagg	agctatgcat	720
tatgccgaac	gcgtgaaaaa	cgaataccct	caatacgacg	tccgtgtcac	catttttaggg	780
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gcagccgcta	tcgacgctat	tatggaagat	caacgaaatg	tcatgattgg	cattgaacac	900
gacgagattg	tatacgttcc	gttcagtaaa	gccatcaaga	atgataaacc	tgtcaagaga	960
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<210> 2255

<211> 780

<212> DNA

<213> B.fragilis

<400> 2255

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ttcgttatgg	aacgtgcccg	tgctgcccgt	gtgacgcata	tctttatgcc	taacatagat	120
agtacgacga	ttgaacccat	gctgtcgggt	tgtgatacct	atcgggactt	ttgctttccg	180
atgatcggat	tgcaccctac	ctccgtgaac	gagtcctatg	aaaaagagct	tgaaatcggt	240
gccgcaaadc	tggaaacttc	cggccgggtt	gttgctgtgg	gcgagattgg	aattgatctt	300
tactgggata	aaacctgggt	gaaagaacag	ttgattgctt	ttgaaaaaca	agtgcaatgg	360
gcccttcatt	atcaattgcc	catagtgtat	cattgccgcg	aagcttttca	ttatatatat	420
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gtggtgactt	tcaaaaaagt	aacgttgccg	gagacattga	agtctgttcc	gttggaaacgt	600
atcgtattgg	aaaccgattc	gccttacctc	actccggttc	ctaatecgtg	aaagagaaat	660
gagagtgcga	atgtgaaaga	tacattaata	aaagttgccg	aaatatataa	cgaagatccg	720
gaaaaagtgt	cgggaattgac	cgctgttagc	gcattaaaag	tgtttgggat	gctcaaataa	780

<210> 2256

<211> 186

<212> DNA

<213> B.fragilis

<400> 2256

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ttcgtaggct	ttattcagag	ttgtgtatac	aatatctgta	tggtattcaga	ggaagagcgg	120
tttactgttc	ttggtgcgat	tggtattacg	aggggaggat	tattgccagg	tggtggattg	180
aaatga						186

<210> 2257

<211> 642
 <212> DNA
 <213> B.fragilis

<400> 2257
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 gaccgctatc tgactaccag ccgggtaaaa gcaataaacg acgcattggc aggcattccct 180
 tatgaacata tcattatctt agccaatacg gaacaatacg gtggggggcg catctacaat 240
 gctttcacac tgaccaccgc acaccatccc aatttcctgc cggtagtggt acatgagttc 300
 ggtcatagtt ttggtggctt ggccgacgaa ttttttatg atgaagacgt catgaacgga 360
 ctctatcctc tcaacattga accatgggag cagaacatta ccaccgcat caactttgcc 420
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 gccaaatatc ccataggcgt atacgaagga ggaggctact cagccaaagg tttttatcgc 540
 ccggcattcg actgccgcat gcgtaccaac gaatatccta ccttctgtcc ggtttgccaa 600
 agagctatcc aacggatcat agagttttac acaggtaaat aa 642

<210> 2258
 <211> 1053
 <212> DNA
 <213> B.fragilis

<400> 2258
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 aataaagaag gcattaatgc cggacgcagt acagctttga ctatctctg cctgtttctg 420
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 gaatatatgt ttctgtgaata ttatgccgat tttttgatg tggcaggat ggctttggtc 960
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<210> 2259
 <211> 459
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (374), (432)
 <223> Identity of nucleotide sequences at the above locations are unknown.

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tgtatgaata ctgnggattc cgcttggatg ccactccgct gttctacctc ttctcctcgc 420
 ccaaagatgc tntggccagt gtcagcattt gggctcgtga 459

<210> 2260
 <211> 189
 <212> DNA
 <213> B.fragilis

<400> 2260
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 gtccgatctt gtacagattg ttcatctccg aacagttctt tctcgaatca ttacactaat 180
 ttacaatga 189

<210> 2261
 <211> 2118
 <212> DNA
 <213> B.fragilis

<400> 2261
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 tatgcttttga tggtttgtccc tctttccgcc caaactccac ataccatcag cggtatcggt 180
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 aaaaacagca tgaaatttgt tttcgctccg tccgacctgg agctgatcaa agacatgctc 480
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 aacggcatta tctacccgat gcggttcttt aactataatc tgagtgcatt ggacttggac 900
 aacagctaca tccccagca gactccgctc aacttcaatg aaaaaggaga aatgcatctt 960
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 gatttagata agaaataa 2118

<210> 2262
 <211> 1137

<212> DNA

<213> B.fragilis

<400> 2262

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gacggagagc	cctccaccga	taacgacaat	gcggtattgc	aaaaactggg	ataccatctt	180
tttattttcc	gttccaatac	tgccaatcct	tcccccgata	atgacggctc	caattacact	240
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<213> B.fragilis

<400> 2263

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<212> DNA

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<211> 258

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<213> B.fragilis

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<211> 1017

<212> DNA

<213> B. fragilis

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ggtgtgggac	tggcgatggt	ggccactatc	aaagggtatc	gccttatact	gaccatgccc	360
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caactggccg	gacgtccgga	atttaaagga	aaaatgattg	tgactctgtt	gccgatgacc	960
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<210> 2270

<211> 192

<212> DNA

<213> B. fragilis

<400> 2270

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ttatttttcc	ggattatttg	cattgttgca	tctgttcgtg	aacatcggca	ggaggcactc	180
ccagcgaat	ag					192

<210> 2271

<211> 546

<212> DNA

<213> B.fragilis

<400> 2271

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ctgggagcag	aattcaaaat	atcacccgca	ctgacagccg	gggcagatat	catgtataaa	180
ggatggagtt	ttttatccga	taaccgcaaa	atggggcggt	tcttagttca	acccgaagct	240
aagtattggt	tttgcattcc	tttctataag	cactttatgg	gccttcatgc	ccactatgga	300
caatataacg	gtggattcag	taaatatcgt	tatcagggag	acttgtacgg	tatcggttta	360
tcttatggtt	accaatggat	atggaaaaga	cgatggaaca	ttgaagtatc	tgcggaata	420
ggatatgcat	ctatgaacta	cgataaatat	gaacgtccca	aatgcggact	attccttggg	480
aaagaccatt	ccaactattt	tggattaacc	aaactcggag	tcagcctgat	ctatatactc	540
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<210> 2272

<211> 813

<212> DNA

<213> B.fragilis

<400> 2272

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tttgaatgta	cggatggaaa	gccatgggga	gaatctcctt	tgacggtaac	tcttgacgaa	180
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gatgcagata	tgtttgtact	gcgttacgct	catgtattgt	tgatgatagc	cgaagccgaa	480
aacgaagcac	acggagctac	cacaacagcc	ttgaatgcta	ttaatgaagt	aaggacacgt	540
tcgggacaac	cggccatcga	agccggtatc	tcacaagacg	atcttcgtga	acgtatccgg	600
aacgaatggc	gtattgaaac	ttgttttgaa	gggctgcgtt	acttccagtt	aaaacgatgg	660
aagttgatgg	ataaacgggt	gaacggggta	gaagatcctg	cttatccggg	atacatcaag	720
gtgtataaac	ctgcatttga	atttttcccg	attccacagt	ccgaaataga	taaagcgggc	780
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<210> 2273

<211> 699

<212> DNA

<213> B.fragilis

<400> 2273

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ggaaatggaa	tgacaggacg	cgacgtagct	attaaaatgt	tacaagataa	cggaatatac	180
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gctcacgagt	gtggacatgc	ggtgcagcat	gcgcgggctt	atgcaccctt	gacactgcgc	360
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ttggtatggc	tgagtgcttc	aggtataacg	aattcatata	atcatagaca	ggcagaagat	600
gcccttcgtt	cagccgctta	tacttatgta	gttgctgccc	ttgggttcgtt	ggctacactg	660
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<210> 2274

<211> 2055

<212> DNA

<213> B.fragilis

<400> 2274

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ggcgccaaaa	aaacaaacac	tgctgaggca	gataatttta	aatataacagt	ggaacaattt	120
gcagacttac	agatattacg	ctatcgcgta	cccgattttg	agaatttaac	tctcaaacaa	180
aaagagctgg	tatactatct	gactcaagct	gcgctcgaag	gaagagatat	cctgttcgat	240
cagaacggaa	aatacaatct	taccatccgg	aggatgcttg	agacgatcta	tacggattat	300
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gacgaaactc	ctgtctctta	cgggctgaac	agccgttttg	tgaaagaaga	cggaaaaata	720
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aatccgagat	acgatgcggt	cattgacgag	cagggaataa	tagtagatgt	acaagtaacc	1980
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<210> 2275

<211> 885

<212> DNA

<213> B.fragilis

<400> 2275

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gatgcaaaac	cgacctacaa	aaagtccctc	ggctacaggc	ctggcgata	tggtatcggt	120
gacaagatag	tctatatcga	gaacagcgat	ggtaacacga	atgtgcgttt	tcatcaggca	180
gacacccata	agagattcct	cgctctcttg	gaatcccaga	acatccgtgt	aaatcgcttc	240
agggcagact	gcgggttcctg	ctcgaaggaa	atcgctcagt	agatagagaa	gcattgcaaa	300
cattttctaca	tccgtgccaa	ccgatgcagt	tcgctctaca	atgacatctt	tgctctgaga	360
ggatggaaga	cggaggagat	taacggcatc	cagttcgaac	tcaattccat	tctcgttgag	420

aaatgggaag	gcaagtgcta	tcgtcttgtc	atccagagac	aaagacgcaa	cagtggcgac	480
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tcgacaaggg	acattgttga	attctacaat	ctgcgtggcg	gcaaggaacg	tatctttgac	600
gacatgaaca	acggattcgg	ttggagcagg	ctccccaagt	cattcatggc	ggagaatact	660
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gacaccaagg	cttttgggct	caagaaaacg	agtcgcataa	aggcttttgt	cttcagattc	780
atctccgtac	ctgccaaagt	gatcatgact	gcaaggcaat	acgtgctgaa	tatctacaca	840
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<210> 2276

<211> 678

<212> DNA

<213> B.fragilis

<400> 2276

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ggaaaatgga	tttgggtacc	gatgtatgcc	agtatcctgt	atgttctgct	aaagaacttc	180
aattggaaaa	taacactatg	ctgcctgact	gccatcgac	tcaccatcct	ctttgccgat	240
caagtttgtg	ccagcctgat	acgccctgcc	gtagaacgcc	tgcgaccgtc	caatccggca	300
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gcagcattca	tgtgttattt	actgaagaaa	acagcaagag	gcgcttcttt	tggaaaagtg	600
aaacatacgg	aaatcacgat	ctacgtaggg	ctacttacaa	caataggaat	tgtggtttac	660
gcttcaatca	tggcataa					720

<210> 2277

<211> 696

<212> DNA

<213> B.fragilis

<400> 2277

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actacaatgg	acaaaaagtt	actgatgatg	gcgctgttga	taacaacagg	acttgccaca	120
catgcacagg	agaagctgac	ccgctatcag	gtgaggaacg	ccattacggg	gcgtactccg	180
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cttttctatta	atggtgaatc	gaagatggta	aaggatgctt	cggaagacag	catctctaaa	480
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aaactgcttt	cgactccgga	cgacaaaacc	gtaccttcac	tgaatgcga	actggtaaaa	600
gatgacaaat	tcaaagaagt	ggcatgcagc	accgatcctg	aacagaaaca	tcgtttctca	660
ctcgataaca	ccaattttacg	ggaaacgggg	ccataa			720

<210> 2278

<211> 501

<212> DNA

<213> B.fragilis

<400> 2278

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tactccattg	acgggcattt	cgatategat	atgctgtatt	cacagatgat	gaatcaggag	180
aatttcaggg	tgagcagagc	tacgctttat	aacaccatca	tcttacttat	caatgcccgg	240
ctgggttatca	aacatcagtt	cggtacttcc	tcccaatcag	aaaaatcata	taatcgcgag	300
acgcatcatc	accagatatg	tacacaatgc	ggcaagggtca	ccgagtttca	gaacgaggct	360

ttgcagaacg	cgattgaaaa	caccaaatta	agtaaattcc	aacttttcgca	ttactcctta	420
tatatatatg	gtatatgtag	taaatgcgac	agggcaaata	agagaaaaag	agtaaataac	480
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<210> 2279

<211> 1827

<212> DNA

<213> B.fragilis

<400> 2279

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ttgatgccta	cggggggagg	caaatcaatc	tgctatcagc	ttccggctct	gcttatggaa	180
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cgtgccaacg	gaataccggc	aggtgcacta	aacagcagca	atgacgaaac	cgaaaatgcc	300
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gccttcggta	acatcaacgg	gattggtgaa	tataaaaaga	aaaagtacgg	aaaagatttt	1800
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<210> 2280

<211> 585

<212> DNA

<213> B.fragilis

<400> 2280

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aaaaatgaat	tgcttaaccg	tcagataatt	attgatatga	tacagtcaaa	gaaagaaacc	120
cacctgcagc	aacaattg	tgtggaaaag	atggctttcg	gtgtcttagg	tatctttctg	180
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<210> 2281
 <211> 1188
 <212> DNA
 <213> B.fragilis

<400> 2281

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gacaatcata	tatatcggat	aacgggagaa	tcgattgaac	cactttatat	ggtagattgg	780
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cagttctgtt	atcaaggaaa	atatgtatat	actatgactg	atttatgtga	tactccttcc	900
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caaaagaaat	tgtctgctga	agaagatatt	aatgaaaaaa	tgtccagttt	gctagggcag	1140
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<210> 2282
 <211> 1875
 <212> DNA
 <213> B.fragilis

<400> 2282

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<210> 2283

<211> 831

<212> DNA

<213> B.fragilis

<400> 2283

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tatctctata	aagacaacgt	gcttatccat	tccggaatca	tcgataacgt	taccgacctg	180
aatacagatg	cttacaact	gacctttcct	aaattagcat	ttggagatta	ttgtctggca	240
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ctaaactatc	cgggaattga	acagacccaa	gactacttca	cgtcttggtt	tgatttcacc	360
gtcgattgcg	aatgcggtta	ccaggatttc	gtaattctac	gacgtacaca	gggcgtcact	420
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cgtattagta	cagactttta	tcacagtatc	ctcggcaact	cgggattctc	catagcaatc	780
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<210> 2284

<211> 822

<212> DNA

<213> B.fragilis

<400> 2284

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gaaccaagtc	atcacgtcac	tttcttgtag	gcactggccg	gaaagccgga	acgcactcag	480
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aatgacgact	gcggacagat	gtcggcttgg	tatatgttca	atgccatggg	attctatccg	600
gtcgatccgg	tgagcggaca	ttatgtgttc	ggtgctccgc	agatgcctaa	aattgttctc	660
catctgccgg	atggtaaaac	gtttacggtc	attgccgaaa	atttatcgaa	agaacataaa	720
tatatcgaca	gtatcacact	gaatggtgaa	ccctatacta	aaaactacat	ttcacatgaa	780
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<210> 2285

<211> 1038

<212> DNA

<213> B.fragilis

<400> 2285

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ttatatatga	agacacatct	tatatcttta	tggttcacat	cttttggggg	gatggcttgt	180
acttctcagc	cggggattaa	taccgggtgag	aacaaagtag	aaggagatac	tataccggta	240

ttggattttg	cttcggcaat	ccataaacia	gttcctgata	cgtttatgtg	gaatagtgtg	300
gccagaaaga	ttacctatat	accattggcc	tcttcccatc	tgatggatgg	ccatcctgta	360
atcgaatata	tcgatgatga	tatgtgcatt	attatggaag	ggaaaagcca	atggataaat	420
tgtgtcgatt	ataaaggtaa	tttcttaagt	actttccggc	atgtaggcaa	tggggcagga	480
gaatatgtta	atztatcttc	agttgtatat	cattcaaaag	attccactat	tcgtattttt	540
gataatggca	gttataagca	tattatttat	aataagcagg	ggaaatttct	ccgggagatc	600
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<210> 2286

<211> 1170

<212> DNA

<213> B. fragilis

<400> 2286

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gatacttctg	tcagtgtcgt	gtttaaaacc	cggcaactac	cttctaccaa	aggagaaaat	180
gacgacgaaa	tttctgttct	tatatctaga	aaagagaaaag	accaatttac	caaagtagaa	240
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gacatttcca	tctctcccga	cgcgatttgg	gacttgggaag	aactcaaat	caataatcaa	1140
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<210> 2287

<211> 1521

<212> DNA

<213> B. fragilis

<400> 2287

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aagaaccaag	ccgctctcaa	cacgaccata	acaggtatca	gtaaccaaac	ttgggaaaac	720
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<210> 2288

<211> 1128

<212> DNA

<213> B.fragilis

<400> 2288

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<210> 2289

<211> 894

<212> DNA

<213> B.fragilis

<400> 2289

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gtaggacaga	ttttatgtga	ccgcatgaat	gaacttgatt	tacattatcc	ggaaatgcct	840
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<210> 2290

<211> 210

<212> DNA

<213> B.fragilis

<400> 2290

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tatcgcgtgg	taacagaaac	atcctgtttt	ggagtttagag	tgataaactg	tacatcaggt	180
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<210> 2291

<211> 282

<212> DNA

<213> B.fragilis

<400> 2291

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gaagaaaaaa	caattggtgg	tatcattatt	cctgatacag	caaaagaaaa	acctttgaag	120
ggtgaagtgg	tggcagttgg	tcacggtacg	aaagacgaag	aaatggtatt	aaaggcaggc	180
gatactgttc	tttatggaaa	gtatgctgga	acggaacttg	aagtagaagg	taaaaaatac	240
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<210> 2292

<211> 1269

<212> DNA

<213> B.fragilis

<400> 2292

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aagtcggcgc	ccactccata	cgactcacat	aatgacttat	atttctggca	atcaccttat	1260
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<210> 2293

<211> 903

<212> DNA

<213> B.fragilis

<400> 2293

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gaaaacaagt	tccgtgaagc	tctggatata	ctgaaccaat	tactggtgga	gtttcccgaa	660
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ttgcgggggt	acatttatct	cgatcagaaa	aagaaatcgc	tggcaaaagc	ggacttcgaa	840
aaagctatatt	cgctgggagt	gcctcctgcc	gatgttcacg	aacagatgca	acaatgcaaa	900
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<210> 2294

<211> 1161

<212> DNA

<213> B.fragilis

<400> 2294

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actcctaagt	cacctgatgc	gagagatgcg	gaagaatata	cgggtttaccg	ctattcatct	180
gttcccattc	ctatgagaaa	gccttacaga	ctgggttttc	cgcgcacatga	ttggccctttt	240
cacgagcgta	tcagccggct	ttcattcgag	ctggtagatg	cccattgtcc	cttttctctcg	300
ggagcactgg	ccatgcagat	tgccaaagaa	cagcatgttc	cgattgtagc	tacgtttcac	360
tccaagtacc	ggcggtattt	tgagagggcc	attccttccc	gtctgttggg	gaactatctg	420
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gtcgaagaga	cgttgcggga	gtatgggtat	aagggcagga	tagaagtggg	ggataacgga	540
aatgattttg	caggtacgcc	ttttctccaa	tctgtccggc	aggaggctcg	gaggacttta	600
ggtatccggt	ccggggaggt	tatgtttctt	tttgtcgggc	aacatatttg	ggagaaaaat	660
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cgtgaaatat	tatgcagtac	tgctataata	aaacagggtg	gagaggaggc	atcacgaact	1080
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aagcgaacg	gaaataaata	a				1161

<210> 2295

<211> 1281

<212> DNA

<213> B.fragilis

<400> 2295

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aatgccgggt	atacatttga	attcgaagga	cagaaatatg	tgcttcgttc	cattccttca	180
ggatctcttc	agggggacaa	ggtaaataatc	atcggtaacg	gtgttgtgct	cgatccgggt	240
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catatttcga	agaaagcgca	cctcattttg	cctacacacc	gtatttttga	tgcggcttat	360
gaagctgcca	aaggcgatgc	taaggtagga	actaccggaa	aaggatatcg	tccgacttat	420
acggataaag	tgagccgtaa	tggcgttcgt	gtaggtgata	tcttgcataa	ctttgaacag	480
aaatatgctg	cggcaaaaagc	tcgccacgaa	cagatcctga	aaggtttgaa	ctatgaatat	540
gatttgacag	aacttgaaaa	agcctgggtc	gaagggaatcg	aatacctgaa	acaattccag	600
ttggtggata	gtgaacatga	aataaacggt	ttgctcgata	acggcaaatac	cattccttgc	660
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gaacagttgg	gcgtacagat	caagattgtg	tcggtagggtc	ctgaccgcga	acaaactatc	1260
attagatata	cagaagaata	a				1281

<210> 2296

<211> 1374

<212> DNA

<213> B.fragilis

<400> 2296

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ataatactta	tgaagaaaca	ttttattacg	tttttgctat	tagtggaat	gacagcttcc	120
ctgacagcac	agcaaaagta	tcaaccgaca	gaggctaacc	tgaagcccg	gagtgaattt	180
caggacaata	agtttggaat	cttcttcat	tggggactct	atgccatgct	cgctaccgga	240
gagtggacga	tgacaaacaa	taacttgaat	tataaagagt	atgccaaact	ggccggggga	300
ttctatcctt	cgaagtttga	tgcagacaaa	tgggtagcag	ccatcaaggc	ttccggagct	360
aaatatattt	gcttctactac	tcgtcatcac	gagggtattct	cgatgttcga	taccaagtac	420
tctgattata	acattgtaaa	agcgactcct	ttcaaactgt	atgtggtgaa	ggagctggcc	480
gatgcatgtg	ccaaacatgg	catcaaactt	cacttctatt	attcacatat	agactggtat	540
cgtgaagatg	ctcctcaggg	aagaaccgga	cgtagaaccg	gacgtcccaa	tccgaaagga	600
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gtgggagagt	ggatgtcgaa	atatggtgaa	actatttatg	gaaccagagg	cggctctggtt	1140
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aattttacagg	ataaggcact	cttcttgcct	attgtcgata	agaaagtga	aaaggcgggtg	1260
gtctttgctg	acaaaacacc	ggtacgtttc	acaaagaata	aggaaggaat	tgtattggaa	1320
cttgctaaag	ttccaacgga	tgtagactac	gtggtagaac	ttacaattga	ctaa	1374

<210> 2297

<211> 207

<212> DNA

<213> B.fragilis

<400> 2297

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caggacgtta	ctggttggtta	cggctcttgc	tctgtagggtc	tatattgctt	tttctatggc	120
ctattcatcc	agaagatttc	aagaaagtac	ttcaattatc	gaatgggtaa	acgattagaa	180
aaagaagatg	tgaggataat	taactga				207

<210> 2298
 <211> 1515
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (58)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2298
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 ttactttacc tgatattcta ccgggtactg atttatcaaa aacaaccggg aaaaatacct 180
 tttcaccggg tgagtgtatc cggagtattg ctacttgcca ccgccctcct gttcatcccg 240
 atacggggag gtttcacggg gtcgaccatg aacctgagca aagcctactt cagcagtaat 300
 cagcggttga accatgcggc tatcaatcct tgtttcagcc tgatggagtc attgtcacgc 360
 caggacaatt tcgacaagca atatcgattc atgccagccg aagaggcaga caaactcttt 420
 gccgaactca aagaccagcc ggttgccccc actgacagca tcccacaact cttcacgacc 480
 gaacacccga acgtgatatt aatcatactt gaaagctttt cgtccaaact gatggaaacc 540
 ctccgaggag agtccaatgt ggcaatcaac atggatcagt tcggacgtga aggggtattg 600
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 gggttatccg cacaaccgac taccagtatt atgaagtatc caaagaaaac gcaacacttg 720
 ccttcgatcc ccggcagcct gaagaaagca ggatacgacc tgcaatacta ttacggagggt 780
 gacgccgatt ttaccaacat gcgctcttac ctgatccagg caggaataga caacatcggt 840
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 gtgttcaacc gtctgctgga cgacttgaaa cagcatacac cccaaaaacc ctttatgaag 960
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 aaagagactc ccttatggaa aaatacggta atcgtattgg ttcccgatca tctgggagcc 1140
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 ggagggtgcc taaaagagcc cagacagata ggtacttacg gctcgcagat tgacattgcc 1260
 gccacactgt tgggacaact cggattaccg cacgaagagt ttatctttag taaaaacatg 1320
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 acacataaag gagagaattt acccaaagcc aaagcatacc tgcaaaagtt gtatgacgac 1500
 ttggctaaac gataa 1515

<210> 2299
 <211> 666
 <212> DNA
 <213> B.fragilis

<400> 2299
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 gaattgcccc gtatcaaaag cattgctgcc gcttacgaga agagtcatga tctggcacaa 180
 gccttgtgga aagagaatat ccgtgaatgt aagattctgg caggcttatt acagccgata 240
 gatactttct ttcccagat agccgatatt tgggtagagg atattcgga tatcgagata 300
 gctgaactga catgtatgaa tctgtttcag aatttgcctt atgctccggc gaaaactttc 360
 caatggattg cggatgaggc ggaatataca caagtgtgtg gctatcttac catagcccgg 420
 ttgctgatga aaaagggaga tatggcccag cgtcctgccg gtgagttact cgatcaggcg 480
 atttgtgccg tacagtcagg gagttatcat gttcgcaatg cggcaatgct tgccatccgt 540
 aagtatatgc agcatagtga ggaacatgct tttcaagttt gccgtctggt agaaggcatg 600
 gagaactctg aaaaagaggc ggaacagatg ctgtatgcga tggtgaaaga cgagataaac 660
 gattga 666

<210> 2300
 <211> 1425

<212> DNA

<213> B. fragilis

<400> 2300

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ggtcttttgca	cctcctgcac	tcccgaact	ccgacagcac	cccaagacta	cactcagtac	120
gtaaacacct	ttatcggagc	agccgacaac	ggtcacacct	tcccgggtgc	ttgcctgcct	180
ttcgggctga	tccaggcaag	tccggaaacc	aacgccatcg	gatggcaata	ttgctccgga	240
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catccgaaat	cggactggga	aacttatatg	aaatacggct	actaccgac	agacaaagta	1380
gatgccgaat	cgggtttcac	gtaccctcga	atcgggtttac	gatga		1425

<210> 2301

<211> 2142

<212> DNA

<213> B. fragilis

<400> 2301

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actgttcttg	tcacatttcc	ggtacaacat	ctggaagaag	tcgtcatcac	cgcagggcgt	180
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aacctcctca	acagggaata	taaggaatat	accaaccgct	cacgctacta	tgcgcatgat	2100
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<210> 2302

<211> 1416

<212> DNA

<213> B.fragilis

<400> 2302

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tacatattca	ataccattcg	tgacgtttat	catctgtatg	gtttccagca	gatagaaact	180
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ctttttaaga	ttcagaattc	cggtgattat	ttttcaggca	ttactgacga	agagctgttg	300
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attacagtag	caatcgataa	actggataaa	atcggttttg	acaatgtcaa	taaagagctg	720
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gaccgtat	tcgatgtgct	caaccagttg	gaactgtatc	cgaaggaggc	cgtaaattggc	1140
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aaacagatga	gttatgcaaa	tgtaagaac	attcctttcg	ttgctatcgt	aggtgagaat	1320
gaaatgaatg	agggaaaagc	tatgctgaaa	aacatggaaa	gcggtgaaca	gcaattgggtt	1380
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<210> 2303

<211> 1080

<212> DNA

<213> B.fragilis

<400> 2303

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<210> 2310

<211> 543

<212> DNA

<213> B.fragilis

<400> 2310

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<210> 2311

<211> 1380

<212> DNA

<213> B.fragilis

<400> 2311

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<210> 2312

<211> 3885

<212> DNA

<213> B.fragilis

<400> 2312

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<211> 3066

<212> DNA

<213> B.fragilis

<400> 2313

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<211> 1314

<212> DNA

<213> B.fragilis

<400> 2314

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<210> 2315

<211> 498

<212> DNA

<213> B.fragilis

<400> 2315

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<210> 2316

<211> 1065

<212> DNA

<213> B.fragilis

<400> 2316

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<210> 2317

<211> 2322

<212> DNA

<213> B.fragilis

<400> 2317

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<210> 2318

<211> 294

<212> DNA

<213> B.fragilis

<400> 2318

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<210> 2319

<211> 243

<212> DNA

<213> B.fragilis

<400> 2319

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<210> 2320

<211> 1026

<212> DNA

<213> B.fragilis

<400> 2320

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<210> 2321

<211> 840

<212> DNA

<213> B.fragilis

<400> 2321

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<210> 2322

<211> 2814

<212> DNA

<213> B.fragilis

<400> 2322

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<211> 771

<212> DNA

<213> B.fragilis

<400> 2323

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<210> 2324

<211> 555

<212> DNA

<213> B.fragilis

<400> 2324

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<210> 2325
 <211> 1281
 <212> DNA
 <213> B.fragilis

<400> 2325
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<210> 2326
 <211> 270
 <212> DNA
 <213> B.fragilis

<400> 2326
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 aaaaaatctg tgtaaatccg tgtaatctgt ggtgaaatta attattgcgt tgaacgggca 180
 ctcttatttc agttccttta ccgtttcacc ttctaccagt tgtgtcacac cggctgtcac 240
 cacagtctcg cctgctttca atccttttga 270

<210> 2327
 <211> 765
 <212> DNA
 <213> B.fragilis

<400> 2327
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 aatggttggg tcgattataa tattccgcag atatactggc agatagggca tcctgccgcc 180
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 ggccagctcg tgatgaatac gattcaaaat gccgatccga agaatccttc catgaatcag 300
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 gtccgtaaaag tgaaaaaagt atggacggaa gatggttaca tgttgttctg gactgctccg 540
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 aagctccctt acaaggatgg gaaaaacaaa taccgttatg ttgtgacagc acttgaccgt 720

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765

<210> 2328

<211> 1221

<212> DNA

<213> B.fragilis

<400> 2328

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aagaaccctc	gtttttatga	tgccggcggt	tctaggggaa	tagccgggca	ccgtaaggcc	180
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ggaatacggg	ttcgtttcac	cgccggcaat	cagtcactga	accggaacga	cgaatacctc	480
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gccaactata	ttgcagcccg	gattgtcgaa	cccctgtttc	cggagatcaa	tcacaccag	1140
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<210> 2329

<211> 1569

<212> DNA

<213> B.fragilis

<400> 2329

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<210> 2330
 <211> 1248
 <212> DNA
 <213> B.fragilis

<400> 2330						
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<210> 2331
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 <212> DNA
 <213> B.fragilis

<400> 2331						
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aatgagacga	tcaatgtcgg	tccgtccgat	gaaaaatata	cttggcccat	acctcaggtt	1380
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<210> 2332

<211> 1407

<212> DNA

<213> B.fragilis

<400> 2332

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gaagagttca	caaccgaatt	tgtacatcac	acccgtttct	cgggtgaggt	gaaactggga	180
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<210> 2333

<211> 684

<212> DNA

<213> B.fragilis

<400> 2333

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<210> 2334

<211> 2949

<212> DNA

<213> B.fragilis

<400> 2334

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<210> 2335

<211> 1299

<212> DNA

<213> B.fragilis

<400> 2335

<210> 2336

<211> 536

<212> DNA

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2336

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nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	360
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	420
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	480
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<210> 2337

<211> 540

<212> DNA

<213> B.fragilis

<220>

<221> unsure

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2337

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
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<210> 2338

<211> 567

<212> DNA

<213> B.fragilis

<220>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2338

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nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	180
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	240
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	300
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	360
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	420
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	480
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnntccct	acatgcaaaa	tgtaaagtat	540
ttaattggct	gtttattaaa	tacataa				567

<210> 2339

<211> 312

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2339

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acagaaaata	ttaaaaccaa	gcgcttggt	gacgtttttc	gcttcatttc	attccatccc	120
ggtgagatgt	atggaccaca	tcagcattta	cgtatcgaaa	ttaattatgt	gaaaaaggga	180
agctgcattc	tccatccgga	tcagagaggt	atcagtcttc	accacggggc	tggaaggatc	240
ngcggagcgt	tcgtannnnn	nnngnnnngt	accaacggng	gctcagatat	tnntannnaa	300
nnnngggctc	cc					312

<210> 2340

<211> 294

<212> DNA

<213> B.fragilis

<400> 2340

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gatatagaaa	atgcgcttca	agcacttgaa	gaattttctc	agactgaacc	cgtcggtaaa	120
gacgaagctt	actatctgat	gggaaatgct	taccgcaagt	taggagactg	gcaaaaagcc	180
ctcaataatt	atcaatccgc	cattgaactc	aatccccgac	gcccggctct	ccaggcacgc	240
aaaatgggtg	tggatatatt	gaactttctac	aataaagata	tgtataatca	ataa	294

<210> 2341

<211> 846

<212> DNA

<213> B.fragilis

<400> 2341

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gaaatagagc	ggaaagcgga	tactctctct	ttgactattg	ctgaccggaa	agcacacgta	180
acaattgccca	ccattctgga	cgaaactcct	tttcccgtac	tgagcgaaga	ggggaaacat	240
ttagagtata	ataccggtcg	caattgggat	gtgatgtgga	ttgtcgatcc	attggatggg	300
acgaaagagt	ttatcaagcg	aaacgggtgag	tttacggtaa	atattgcgtt	agtgaaagcc	360
ggagttccca	ttatcggagt	gatttattta	ccggtcaaaa	aagaacttta	ctttgccggg	420
caggaaatcg	gtgcctacaa	gctgtcgggc	attacgactt	tagaagacga	tgcaacactc	480
gataagctgg	tagctgcttc	cgtacggttg	ccgcaagacc	tgacgcggga	ccgatttgta	540
gtagtggctt	cccgttcaca	cctgactccg	gagaccgaag	cgtacattga	tgcggtgaag	600
caaaaacaca	aacatgtcga	gttgatttcc	agcggcagtt	ctattaaaat	atgtttgggt	660
gccgaaggta	aagcggatgt	ttatccccgt	tttgctccta	cgatggagtg	ggatactgct	720
gccgggcatg	ccattgcgcg	tgctgcggga	atggaaatgt	atcaggcgga	taaaaaagat	780
gttcctttgc	agtataataa	agaagatttg	ctgaatccct	ggtttattgt	tgagaagaga	840
aggtaa						846

<210> 2342

<211> 480

<212> DNA

<213> B.fragilis

<400> 2342

cttttttctc	ctcaaggagg	cggttcatct	ccgttatctt	caccacagca	atcaggctct	60
ttgcctaaac	ctgaagaagt	cattaaggat	gcaactgtaa	aaaaggcttt	ggaagaagcc	120
tggagtata	tgcttaagcg	ttccacagag	gtccaaagac	aagaagttgg	tttctggatt	180
tattatgac	cgggtgaaaa	gcaatattac	ataggtaaga	aacgatatgg	tatggcagtg	240
agaatgacg	gaaaagcaag	aggaaatata	agccttggag	acaaatctcc	ttctataaat	300
ggtgtgcctg	ccacagcaaa	agtggttgct	tcttttcata	cacacactcc	aatgactgaa	360
ataaaaggta	agaaaagaaa	ggcaggtcca	tctaaagaag	ataaagaaaa	tgccgataaa	420
aataaaatac	ctattgatata	attagttttc	cgttgcattt	tagaaattgt	aattttattaa	480

<210> 2343

<211> 1569

<212> DNA

<213> B.fragilis

<400> 2343

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attgctttga	tcttggacaa	aatgcgtccc	ggcatgatac	ttttctctgt	agtggtgttg	120
tttctctgtg	cgggtatttt	gactccgaag	gaaatgctcg	aaggattcag	taataaaggg	180
atgataaccg	tggccctgct	ttttttggtc	agtgaaggta	tcaggcagtc	gggagcgttg	240
gggcaggttg	tcaagaagtt	gcttcctcag	aaacggacga	cggctctccg	ggcacaatta	300
cgcttattgc	ctgcggtcgc	ttttatttcc	gcttttctga	acaatactcc	ggtagttgtc	360
atttttgccc	cgattattaa	acgatgggca	cggacagtcc	atttacctgc	cactaaatgt	420
ctaattcctc	tttcgtacgt	aactatattg	ggaggtatct	gcactttgat	cggtagatct	480
accaacctag	ttgtgcatgg	aatgatattg	gaatccggtc	atgaaggatt	taccatgttc	540
gaattgggca	aagtgggtct	ctttatttga	atagccggta	ttatttatct	gtttgctttt	600
tctaagaaac	tgcttccgga	tgacagcccc	gatacagctg	tgcccgatga	agaagtagaa	660
gaaggcgata	agcttcaccg	cgtggaggca	gtacttggtg	cccgtttccc	gggtatcaac	720
aaaacttttg	gagagtttaa	ttttaaacgt	cactatgggtg	ccgaagttaa	agaaataaag	780
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<210> 2344

<211> 501

<212> DNA

<213> B.fragilis

<400> 2344

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aaaacgagtc	gcataaaggc	ttttgtcttc	agattcatct	ccgtacctgc	caagtggatc	420
atgactgcaa	ggcaatacgt	gctgaatatc	tacacagaga	accgagctta	tgcaaaaacc	480
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<210> 2345

<211> 819

<212> DNA

<213> B.fragilis

<400> 2345

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ccgtcttttc	atccgcaatt	gagattaatt	gccgaatatg	attcgaaaga	ttttgcatta	660
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tattttcacag	gtggattgac	tttccagttc	cgcttgtccg	gaaaagatgg	aatgaaaaag	780
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<210> 2346

<211> 1176

<212> DNA

<213> B.fragilis

<400> 2346

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<210> 2347

<211> 1131

<212> DNA

<213> B.fragilis

<400> 2347

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gtgagtgtag	gtgttgggc	tcagggtgtg	gtaaaccggg	acaactttga	ttatggcttt	180
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gccgatactt	atattaaagag	caagaataaa	cattacttca	ctatgcgtgc	agacgggatg	360
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gcacttatca	aagaagggtg	aagtaaggat	cagcttgaac	tcgtcggtct	cggtgggtact	1080
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<210> 2348

<211> 843

<212> DNA

<213> B.fragilis

<400> 2348

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ccgcgggatt	atgccagat	caaagaaagc	ggcattcttc	atgctgcaac	agaatacaac	180
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atggctgtgg	actcgctacc	ccagctcgat	atcaataccg	ccatcagttt	cacgcaattc	720
tattcatggg	gagtcagcaa	gcaatctccc	gccctactcg	acagcctgaa	tacatggcta	780

tccgacttcc gaaaaaaagg agaataccag tccgtttatc gcaaataatta cgggaaacaa 840
taa 843

<210> 2349

<211> 273

<212> DNA

<213> B.fragilis

<400> 2349

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agatgcagca	gtatcttcgg	atatcagttc	agcgagatag	tccgttcgct	gatgagcgtt	180
tattttctgtg	gcggctcatg	cgtggaagat	gtaacgtcac	aactgatgcg	ccatctgctc	240
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<210> 2350

<211> 195

<212> DNA

<213> B.fragilis

<400> 2350

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attaaaacag	gttctcaaaa	tattatgtat	ctttgcggca	tgacaaatac	tcttagatcg	180
gatttggttt	tgtaa					195

<210> 2351

<211> 1095

<212> DNA

<213> B.fragilis

<400> 2351

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ggcaaattat	atgaaggat	cgtttcttat	cagaagagcg	taatgatcta	tcctaactat	1020
tacagccacg	attctcatga	ttctcatgat	tctcacgggt	tcaacccgaa	tgccgggtggt	1080
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<210> 2352

<211> 1569

<212> DNA

<213> B.fragilis

<400> 2352

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<210> 2353

<211> 192

<212> DNA

<213> B.fragilis

<400> 2353

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<210> 2354

<211> 396

<212> DNA

<213> B.fragilis

<400> 2354

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<210> 2355

<211> 312

<212> DNA

<213> B.fragilis

<400> 2355

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<210> 2356

<211> 252

<212> DNA

<213> B. fragilis

<400> 2356

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 2357

<211> 918

<212> DNA

<213> B. fragilis

<400> 2357

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<210> 2358

<211> 1383

<212> DNA

<213> B. fragilis

<400> 2358

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aatccggcat	tgttcattgc	tatgggtatc	tttgctgtcg	tattcatcgt	gttggctatc	660
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agccccgtttt	cattccgtca	cttcgttttg	ggaacagttg	ccatttttcgt	atacgtaggt	780
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<210> 2359

<211> 252

<212> DNA

<213> B.fragilis

<400> 2359

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atacctccca	atatagttac	gtacgaaaga	ggaattagaa	athtagtggc	aggtaaattgg	120
actgtccgtg	cccatcggtt	aataatcggg	gcaaaaatga	caactaccgg	agtattgttc	180
agaaaagcgg	aaataaaaagc	gaccgcaggc	aataagcgta	attgtgcccg	gaagaccgtc	240
gtccggtttct	ga					252

<210> 2360

<211> 840

<212> DNA

<213> B.fragilis

<400> 2360

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tccaatatgg	aacgacaggg	tcccggaggt	cctgaggtaa	cattgaaagc	attgagtttt	180
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attgtcgggt	ccatggatga	tcttcctttc	cgaaatgaag	agtttagacct	gatttggtcg	420
gaaggggcta	tctataatat	tggttttgaa	cggggattga	atgaatggcg	taagtatttg	480
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tggacagatc	attactttac	ccccaaagtt	gcagctcaga	agattttttt	aactaaatat	720
gccggaaata	aaattgctga	ggaatttagt	atgcttcaat	ccattgaaga	agaactgtac	780
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<210> 2361

<211> 1191

<212> DNA

<213> B.fragilis

<400> 2361

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aatctgtcag	ggctcagccg	gaaagatttt	caaaaggata	taaacgataa	gaaaaccgat	180
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attctatctca	tcattggttcc	ggataaaagac	ggaaaaatatg	ccaatgtcgt	actcagctat	300
ggtacactgg	atgcactgat	gcacggaccg	gaacctttct	taagtaccac	tatcggacgt	360
tatggcaatc	gcacgcccaa	aggtaaattc	accctgtatg	gcgaagaaca	tagtctcacg	420

atcaacaacg	gtcccaactc	acttcatggt	ggccccaccg	gatttcacgc	cagagtatgg	480
gatgccgagc	aacttgaaga	aggggtgatc	cgattcaact	atacttccgc	tgacggagaa	540
gagggcttcc	ccggtaatct	ggaagttgaa	atgacttatc	gccttgaaga	agaagagaat	600
gctattgtca	tcgaataaccg	tgccactaca	gacaaagcaa	cagtcgtaaa	cctgaccaat	660
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gctcaatgct	tccccgacac	accgaataaa	gcacacttcc	cgtcggctac	tttactgccg	1140
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<210> 2362

<211> 522

<212> DNA

<213> B.fragilis

<400> 2362

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gcgcggaagt	tgacagatga	ccactcggat	gccgaagatg	ccgtgcagga	agtgatgctg	120
aagttatgga	aacttcgtcc	gaaactggac	gaataccata	gcattgaggc	ccttgccatg	180
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ctcgacagcg	tacaggctgc	cagtcgggtc	gccacccccg	aacgcttgct	tgaagagaaa	300
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ctccggatga	aagatgtaga	agagtacgaa	accgaagaaa	tcgccgagat	aacaggatgc	420
agctccgaag	ccatccgcag	caatttatcc	agggcacgga	aaaaagtaag	agacatttac	480
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<210> 2363

<211> 630

<212> DNA

<213> B.fragilis

<400> 2363

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gtattatcaa	tttttatgat	tgcttgccac	caaccagata	ctccaccata	ttcatacagt	180
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gaaacagtta	ttattaactc	tagattagaa	ctcgttctcg	caagttatcg	aataaagacc	300
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gattcatatg	caggagaaat	agagaatcag	ggagagaata	atgctcctat	tattgtattc	600
tctatcaaca	cagccgaaaa	aaaagagtaa				630

<210> 2364

<211> 1443

<212> DNA

<213> B.fragilis

<400> 2364

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atgaaaaaga	ttgtgttatt	atcgctgttt	gccctgtgcc	tcccactact	tgtgatggcg	180
caaagcaata	atgacgacct	ttatttcgta	ccttctaagg	aaaaaaaagca	ggaagccaaa	240
aagactcctg	tgaagaagga	accggaaaaa	aaagtgtgtca	ccacgaacat	ttatacgtct	300

ccgggtacta	cggtagtagt	tcaggaccgt	aaaggaaaca	aacgcgatat	gcgtgatgtg	360
gatgagtata	accgccgtta	cgatgtcaaa	gataacgagt	tcgcaatgga	ggacgatata	420
ttatacgtaa	aagaaaaagc	tgtctccgat	ccggatgggtg	aatgggtgaa	cgggttcaat	480
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tcctcaggta	gttctactcg	ctctagtagt	agttattctt	ccgtagcag	aagtagtgg	1380
agcagttctc	gttcgacaag	tggtggaggt	agctacagca	gaagtagcgg	tggtcgaaga	1440
taa						1443

<210> 2365

<211> 201

<212> DNA

<213> B.fragilis

<400> 2365

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tattctgtta	ttcatcagtt	tacttttatc	cccgtatgc	ataaaggcac	atcaaccgga	120
attctccact	gccgattttt	tccggctggc	agactccgga	cgagacgtct	attccatgaa	180
tcctgcatgg	cgtttttata	a				201

<210> 2366

<211> 231

<212> DNA

<213> B.fragilis

<400> 2366

attatggcaa	aaatcaaagg	agcaatcgta	gtcgacacag	agcgttgcaa	agggtgcaac	60
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gggtataatt	atgccagca	gattcttgaa	gatacctgta	acggatgcag	ttcatgcgca	180
accgtatgtc	cggacggatg	tatctctgtt	tataaagtaa	aagtagaata	a	231

<210> 2367

<211> 450

<212> DNA

<213> B.fragilis

<400> 2367

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aaagaatacg	taaggggctg	gctggaagca	aaagggtggg	aatacaaaga	cttcggaact	120
tactcgacag	acagctgtga	ctatcccgat	tttgcccatc	cattggcact	ggctgttgaa	180
gccagcgaat	gctatccggg	aattgccatc	tgtggtagcg	gtaatggat	cagcatgaca	240
ttaaacaac	atcagggtat	tcgtgccgca	ctctgctgga	cagcagaaat	cgcacacatg	300
gcacgcctgc	acaacgatgc	caacgtattg	gttatgcccg	gccgttatat	cagcacggaa	360
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aaacgcattg	ataaaattcc	tgtaaagtga				450

<210> 2368

<211> 501
 <212> DNA
 <213> B.fragilis

<400> 2368

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gctgagcctc	aggtagaagc	tcccgtagaa	gttactccgg	tagttgctgc	tccggtagaa	180
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gctgagacag	ctatgtatcg	tggtgattgta	aatacatttg	ccgatagggc	ttctgctgcg	420
caggcacgtg	atgctttcaa	ggctaaatat	cctagtagaa	aagacttcca	gggcgcctgg	480
ttgtttatata	gaatctatta	a				501

<210> 2369
 <211> 1587
 <212> DNA
 <213> B.fragilis

<400> 2369

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gagtatatgt	gtgtcttgcc	acaaactcca	tattctactt	ttcgttcaag	agaaaaaggg	660
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gatctagcct	ataaattctc	ttcttataaa	gaagacttct	atcctttcta	taatgagttt	1500
aatgatagag	gcattgtaac	tcctaattga	actaagataa	ctaatacccg	tagccaagta	1560
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<210> 2370
 <211> 1128
 <212> DNA
 <213> B.fragilis

<400> 2370

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agcgtgggtg	taggagcaca	gggatgtgtc	aaccccgaca	actttgatta	tggctttgga	180
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<210> 2371

<211> 777

<212> DNA

<213> B.fragilis

<400> 2371

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aaacttgaag	agttgaaagt	agaactggaa	gctaaatacg	gagtacgtat	ctgcctgttg	180
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gctatgacgc	gtatagtggg	tcccggaatg	gtggaacgcg	gacacgggca	tatcattaat	420
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<210> 2372

<211> 882

<212> DNA

<213> B.fragilis

<400> 2372

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<210> 2373

<211> 228
 <212> DNA
 <213> B.fragilis

<400> 2373
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 ttttatcttt tccatgtcac gttttccttc cttctccgtc ttgcttatgt aaatggaact 180
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<210> 2374
 <211> 240
 <212> DNA
 <213> B.fragilis

<400> 2374
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 gtcattgctgt atagcatcgg gaaggattct ttcgttatgg tacggccttg ccgaaaaaag 180
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<210> 2375
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 <212> DNA
 <213> B.fragilis

<400> 2375
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 aataaagaat tgctcccgaa aagagttttc cgagagaaga cgaaaggaca atctgttgca 180
 aaaaaacaga ttgtttacaa aaccaaattc gatctaagag tatttgtcat gccgcaaaga 240
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<210> 2376
 <211> 1476
 <212> DNA
 <213> B.fragilis

<400> 2376
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 gggtcggtag atgacggaaa gtctacattg atcggacgtt tgctgttcga tagcaaaaaa 180
 ttgtatgagg accagcttga tgcattggag cgtgacagca agcggttggg caatgccggc 240
 gaacacattg attatgcctt gttgctggat ggcttgaaag cagagcgtga acagggcatt 300
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cctgaattgg	gcatagctcc	tgaacattat	gaagctattg	agaaggcggg	aaaatcatta	1440
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<210> 2377

<211> 249

<212> DNA

<213> B.fragilis

<400> 2377

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tctccgaaag	cccttccggg	acttgatgac	ttttttctcc	tcaaggaggc	ggttcatctc	180
cgttatcttc	accacagcaa	tcaggctctt	tgctaaacc	tgaagaagtc	attaaggatg	240
caactgtaa						249

<210> 2378

<211> 438

<212> DNA

<213> B.fragilis

<400> 2378

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cgtttcactt	ctgtcctcgc	acatcgcacg	atgcttgaag	ccggactgaa	gaaaaaagac	360
aggcaaaaca	aggcattggg	tgatgagatt	agtgcaacta	ttattttgca	atcttatttg	420
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<210> 2379

<211> 1071

<212> DNA

<213> B.fragilis

<400> 2379

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aagtatgatg	caaaaaccgac	ctacaaaaag	ttcctcggtt	acaggcctgg	cgtatatgtt	300
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caggcagaca	cccataagag	attcttctgct	cttctggaat	cccagaacat	ccgtgtaaat	420
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<210> 2380

<211> 558
 <212> DNA
 <213> B.fragilis

<400> 2380

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gataagatag	aatactga					558

<210> 2381
 <211> 651
 <212> DNA
 <213> B.fragilis

<400> 2381

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aggatgcagc	tccgaagcca	tccgcagcaa	tttatccagg	gcacggaaaa	aagtaagaga	180
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<210> 2382
 <211> 1980
 <212> DNA
 <213> B.fragilis

<400> 2382

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aacaaccaga	atacctctta	ctttaatgcc	gcacttttcg	gaagttacat	aggcgaccgc	660
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ccggaagacg	accaggtaaa	gattggcggt	tatccgatca	tcaatgtata	tgccaacctg	1920
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<210> 2383

<211> 1110

<212> DNA

<213> B.fragilis

<400> 2383

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gtgaaagttg	aacatttcgg	ccgcctggga	ggaattgttc	ccgatccgga	cgaaatagta	1080
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<210> 2384

<211> 999

<212> DNA

<213> B.fragilis

<400> 2384

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gttagttata	atctgggaaa	tagctggaac	aaagtaaaaa	ggaataaaaa	agcaaatagc	180
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tcagcacctg	acgataacat	aatgaagaac	aatagtttta	atccatattt	taccttaatt	960
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<210> 2385

<211> 462

<212> DNA

<213> B.fragilis

<400> 2385

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ctgttcaaaa	ccggtaaaaa	aggctcggct	accctgattt	acatcgaggg	cgagttggat	420
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<210> 2386

<211> 993

<212> DNA

<213> B.fragilis

<400> 2386

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<210> 2387

<211> 1131

<212> DNA

<213> B.fragilis

<400> 2387

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ggtactacgg	cacaagacta	tactcgtaat	gtaacttcta	aagtaaaact	cggaggagca	360
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cctggaagtc	ttattccaat	ttatgatttg	gtatctgata	tgggtaagaa	agagcagttg	960
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aaaggaggag	ctgtacgtaa	taattcccgg	gggcataata	ccagttcgta	tggtaattca	1080
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<210> 2388

<211> 978

<212> DNA

<213> B.fragilis

<400> 2388

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gatcaatggg	tgacgcggga	aataaaagag	tccggcatta	ttggcggaaa	taccaaaaaa	180
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ggttcacctt	ggggaacttc	taacgtaatg	gcacgtgtgt	cgggtattac	caaaaccaat	300
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acatccagtc	atggtgggtgc	ttatatcggt	tcaccgggaa	attcgctcta	cattgacaat	960
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<210> 2389

<211> 1236

<212> DNA

<213> B.fragilis

<400> 2389

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gctctacgga	gcggtattca	gatactgggt	gccactcccg	gcagattatt	ggattttgata	360
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atgctggaca	tgggatttat	ccatgacatc	aaacgcaccc	tgaactgct	accggcccga	480
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<210> 2390
 <211> 999
 <212> DNA
 <213> B.fragilis

<400> 2390						
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gatatacatt	accgtattta	tgattttaat	cgtaaagacg	ccaatggaaa	aacacgtgaa	660
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<210> 2391
 <211> 558
 <212> DNA
 <213> B.fragilis

<400> 2391						
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atgccggctt	atggctcctga	gcaacgtggc	ggaacagcca	acgttacagt	cattgtgaagt	180
gacgacaaga	tctcttcacc	gatcttgagc	aaatatgata	cagctatcat	tctgaatcag	240
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<210> 2392
 <211> 558
 <212> DNA
 <213> B.fragilis

<400> 2392						
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ataaatgccc	atattgatgt	ggtagagggt	gaggaagat	ctatggagga	aggttgtctc	300
agtttgccgg	gtattcacga	gtctgtgaag	agaggcagca	agatacacgt	aagatatatg	360
gatgagaatt	ttgtagaaca	taatgaggtg	gtagaaggat	ttctggcacg	ggttatgcaa	420

cacgagtttg	accatttggg	tggaaaaatg	ttcatagacc	atatctctcc	tctgcgtaag	480
caaataataa	aaggaaaatt	gaacacgatg	ctgaaaggta	aagcacgcag	ttcttataaa	540
atgaagcagg	tgaagtga					558

<210> 2393

<211> 939

<212> DNA

<213> B.fragilis

<400> 2393

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gatttttgtga	acgtactctt	ctctgagttt	ttggtatacg	atccgcaaaa	cccacgctgg	180
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<210> 2394

<211> 1131

<212> DNA

<213> B.fragilis

<400> 2394

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<210> 2395

<211> 408

<212> DNA

<213> B.fragilis

<400> 2395

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ggtgagatgt	atggaccaca	tcagcattta	cgtatcgaaa	taaattatgt	gaaaaaggga	180
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ttggaattcc	tacccgaaat	cttttccac	ttcaacttga	atgccacagc	cgattcgaac	360
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<210> 2396

<211> 618

<212> DNA

<213> B.fragilis

<400> 2396

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<210> 2397

<211> 2697

<212> DNA

<213> B.fragilis

<400> 2397

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<210> 2398

<211> 1257

<212> DNA

<213> B.fragilis

<400> 2398

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ggagaggcca	ctgttgacgc	acttggttaag	atgggatttg	aaaatgtagg	gtggacagaa	180
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aatgcgggta	atgagcgtat	atatggtaaa	ggatatagtc	ctcaggcaag	tgataacgtg	1200
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<210> 2399

<211> 762

<212> DNA

<213> B.fragilis

<400> 2399

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gaaatagctt	atacatgtac	gttgtttcag	tcgcagacga	tagggattga	ttggaaggtc	300
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gaaggacaat	tgtggaagta	catgccggct	gtttagtagtg	gaacttcgga	tccctataacc	420
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ccatcttttg	ccccgatct	gacagtaatc	gcggaatatg	atgcgaaaga	ctttgcgttt	660
ggtgctacct	atttgctttt	caaccatttg	catgcgcagg	tagaattgca	aagaatgaag	720
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<210> 2400

<211> 222

<212> DNA

<213> B.fragilis

<400> 2400

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gcagagattc	ttcgcaaaaa	aggtatcaag	ctgaatcgta	acgaaatgga	aaacctcggt	180
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<210> 2401

<211> 417

<212> DNA

<213> B.fragilis

<400> 2401

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atccgaatcg	ttctacaaac	tctggaacat	attcaagaag	tactagtagg	tcttcttcta	180
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ctagtagtag	ttattcttcc	ggtagcagaa	gtagtggtag	cagttctcgt	tcgacaagtg	360
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<210> 2402

<211> 1173

<212> DNA

<213> B.fragilis

<400> 2402

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tggcggacat	ttaaagctat	taccggagga	aggagatcg	atgcggctta	tacaggtaaa	180
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<210> 2403
 <211> 810
 <212> DNA
 <213> B.fragilis

<400> 2403
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 caccacttct ctaaattcaa attcgggttc gaagaagccg acagcaaagc tacggctgaa 300
 gcagccttgg attctatgaa attcgacaaa gcatgctaca ctgaagggtga aactgccaaa 360
 gtaaaaatgg aatcaactg gaagggtggt atcaagtgcg aagggtggtgc ttctgtagaa 420
 gaaattatca agaaagcaca ttccacacta actacaacta ctatcaagat ggtcagcgca 480
 gctttggaag aagctatcaa agacgataat gccaatgtta ctccgggagc tgcatttaca 540
 gacaaaaagt tcacatatga acttgaagta ccagcttata ctgagttgac aggattcgac 600
 gtaacaagaa acgttatcaa gactacctat gtattgccgt ttgctgttta taataaagca 660
 acgaaagcaa tcgaaaagaa aacagctgaa gttacaatca gcaagatttc ttcagtagtt 720
 gttagaacga ttgaagcgat cggtcatgga catggctcatg gtcacggcga tgacctgaat 780
 gccggtggtg gtattatcat ctctgaataa 810

<210> 2404
 <211> 195
 <212> DNA
 <213> B.fragilis

<400> 2404
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 aaaagtgtaa aagactattc aaatgaaata ccaagcaaaa ccggttttca taaaatcatc 120
 tctccatatt ttccaaatt aaaatttaaa tattccaata acactactca aaagaaaaag 180
 acttatttaa attaa 195

<210> 2405
 <211> 774
 <212> DNA
 <213> B.fragilis

<400> 2405
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 cataaactga ttgccgaagt aatcgaggag atgggactgg aagacaaagc agtcgggtatc 180
 tcacccgtag gttgcgctgt atttatctac aattaccttg acattgactg gcaggaagct 240
 gcacacggac gtgcgcccgc acttgccact gccatcaaac gtctttggcc ggcacgcctg 300
 gtgttcacct atcagggaga tggcgacctt gcctgcacgc gtacggcaga gactatccac 360
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 aaaaaagcaa tccgtaaagc ttttgaaaat tcaatgaacg gaaaaggctc caacctggta 660
 gaaatcgttt cgacctgtag ttccggctgg aaaatgactc cggagaaagc caacaaatgg 720
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<210> 2406
 <211> 1233
 <212> DNA
 <213> B.fragilis

<400> 2406

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gtcaggatca	ggactaaacg	tctgtcgaac	ggttgtgagt	ctatatat	agatatattat	180
atggatggaa	gaagacgata	tgaattttta	aagctatata	taatacccca	gcatacacgg	240
acggataaag	atttaaataca	gagtaccatg	aaactggcca	gtgcagtga	ggcaciaaagg	300
attatagaat	tgcagaatgg	agtatacggc	tttaaccatc	aacaggaaaa	gaaagatata	360
atgctgatag	attatatcaa	gtatttggca	gacaaagata	tagaaaaaac	ttcaaggaaa	420
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agacaggtag	ataaaaagta	tatacttggc	tttgttgaat	acttgaagac	ggcaactcag	540
aaacactgta	aaagtgtgaa	gaatataagt	gccaatactc	aagttcatta	ttataagggt	600
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acccatgcca	caatgatgat	tactcttggt	gccgatcttt	atacggtatc	taaactcttg	1140
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<210> 2407

<211> 252

<212> DNA

<213> B.fragilis

<400> 2407

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aaattaagaa	acgagaaaat	acgctctgat	acaataagaa	taaggctatc	ctttgtgaaga	180
gcaatcatga	gatttactct	acaatgccga	tttatcacct	acgtcacata	cccttttgca	240
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<210> 2408

<211> 852

<212> DNA

<213> B.fragilis

<400> 2408

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cggctggtag	gctataccat	cgggtgcaatc	gtactcctga	cactccctgc	cttgctggga	180
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cacgaaatca	ttctcaccgg	ttttatactg	gtagtatcta	tgctgttctt	cacccttgta	360
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<210> 2409

<211> 567

<212> DNA

<213> B.fragilis

<400> 2409

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gccgtcggaa	cacagccgtc	ggaagtgtct	cgggccaaag	aggaaacgac	ggaaaaggaa	180
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tccgcggaag	tacctatcat	tgacaaaagc	gcatacgctt	acgaacacga	ccggaatgca	480
gccgaagaag	ccggatgcaa	tgactttatc	tcaaaaccga	tcgctcagga	aaagctaaag	540
gaaaagataa	agaaatggct	gaaataa				567

<210> 2410

<211> 201

<212> DNA

<213> B.fragilis

<400> 2410

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gacatgcgta	ctgtttctgc	atccaagttc	atcgctcttt	atatgcctaa	agacagcaat	180
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<210> 2411

<211> 2229

<212> DNA

<213> B.fragilis

<400> 2411

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agagggtggt	ataatgtgga	ggcaacccta	tacaccggtg	tagtggtccg	ctatggagtt	180
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<210> 2412

<211> 939

<212> DNA

<213> B.fragilis

<400> 2412

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acagttgagt	attgcgggca	gtatatggat	gaatactcta	tataccatat	cagtaaaaaa	180
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gccgatatta	tatatccgat	taccgtatta	ctggatcgga	acgggcatcc	cgtatttata	300
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aaaggggata	ctgctgagta	ctatcttagc	aaagtagaag	aagcagtaaa	tgacccgggtc	420
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tccgagatga	atgcaagtca	atacaatgcc	attttgtctg	caaagtatcg	cattcgttat	720
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gaagaggaag	atgtgaactc	tataaaaatg	gaagcgtaca	aacttgatga	aaaggtagctg	840
gaatatgggt	tcgataaaga	attggagaaa	agggaaaggg	aacaaaaaag	gattgataat	900
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<210> 2413

<211> 471

<212> DNA

<213> B.fragilis

<400> 2413

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ttgtacaaaa	gaaattcatt	cggcatcgag	cgcgggtatg	acacaggaca	tagcagtatg	420
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<210> 2414

<211> 1287

<212> DNA

<213> B.fragilis

<400> 2414

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ctacacgaag	agaactcgct	acacatctac	gtcaaattcc	caatggtttc	cggttgcggt	180
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<211> 441

<212> DNA

<213> B.fragilis

<400> 2415

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<210> 2416

<211> 1818

<212> DNA

<213> B.fragilis

<400> 2416

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<211> 432

<212> DNA

<213> B.fragilis

<400> 2417

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<211> 873

<212> DNA

<213> B.fragilis

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<210> 2419

<211> 969

<212> DNA

<213> B.fragilis

<400> 2419

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<211> 3108

<212> DNA

<213> B.fragilis

<400> 2420

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<211> 426

<212> DNA

<213> B.fragilis

<400> 2421

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<210> 2422

<211> 363

<212> DNA

<213> B.fragilis

<400> 2422

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<210> 2423

<211> 780

<212> DNA

<213> B.fragilis

<400> 2423

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<210> 2424

<211> 219

<212> DNA

<213> B.fragilis

<400> 2424

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tctttcgcta	cccatttgtt	ggaacaaggt	actgatctaa	gaaccataca	ggagttgctg	120
gggcacaatg	acattaagac	aacaagtata	tatcttcatg	taacgagtgc	ccataaatcg	180
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<210> 2425

<211> 843

<212> DNA

<213> B.fragilis

<400> 2425

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cacgtatggc	ctgccgtacg	caagtttatt	cgcctttttc	agggcatacg	catcaatccc	180
cgttctcact	tgacggaagc	ggagtacaag	aaactgtccg	taggttcact	ttatgccttg	240
cagcagggag	cctatcttaa	ctccctgaca	ctggacagca	aggataagct	ttccaccatt	300
cttgccgatt	ggtggggcat	ctgtaatgcc	caagatgcca	agcagacttt	ggaataacct	360
ggaaaaaagg	gatttgctta	ttacttcccc	cacgtttatc	aagcttttct	gttggatgac	420
gaggaggcga	aagaccggat	tttcagcaa	cacatggata	gtcaggagga	ttatgacaaa	480
gccgtggaac	aattgcacaa	tctcgaagat	tgctacgatg	aattgctgga	gtgtggtact	540
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aacttcatgg	cacgtgcttg	ctatgacatg	aagtatatct	ctgaagacga	agcgtggcat	660
tacataaatc	atgcttaacga	aatgggtgcac	agccgttttt	cctcatggca	tgactttgct	720
atgagctacg	tcatcggggc	tgccctatgg	ggaggtaaaa	gcgcacccaa	ttcaggcatg	780
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taa						843

<210> 2426

<211> 981

<212> DNA

<213> B.fragilis

<400> 2426

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ataaaagaag	agttgcaaat	ggtgaagact	tatcctgaaa	aacctgccta	ctatctgcaa	180
atcaacaaaa	caggatgcag	gctgcttggt	agagtggatg	atattcccat	aggttatcat	240
tttgtagaga	atgaagggtga	atccatgcta	tatccatta	atgacgtttt	attcggaagc	300
ggaaaacata	cggtcagcat	ccaagtttat	cctcgcaccg	gagagacaga	agttactaag	360
aatgcgagtg	taaatataaa	gattatTTT	tatcaggaaa	agttggtagg	tatgcctaaa	420
acactggtag	agttagatac	tccggaagat	attggaacga	aaaaatcacc	aatatatacc	480
gattctgtaa	gttttaatgc	tatacttct	ttcgactaca	aaaggattct	tgccgaggcg	540
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cgccaaatga	tgattgaagg	aaagtattat	gagtacgaaa	agatgcgtct	ttcaactacg	660
tgggtatttg	ccgatatgag	ctatttgggt	caagacgctt	tacgaaaggc	tcatattgat	720
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aattatgaga	tggttatctg	tggaaataga	aaattgggtct	atctacggcg	taaagtggaa	840
ttggatgatg	ttctacaggt	tcgctattat	gatacggagg	aacaaaagag	attatcacct	900

gatatgctga ctgtttctgc attccagttt attgctcttt acatgcctaa agacagtaat 960
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<210> 2427

<211> 408

<212> DNA

<213> B.fragilis

<400> 2427

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tccgatgagc	caatgattta	catggttatc	caatccaaag	aaaactctgt	gggtaattat	180
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cttagtgaga	atcttgattt	gatgaagtcg	cttttgata	atgatctagc	cgaagaaaaa	300
gcaaagaatt	tggttggatt	agatgttact	aacgattgga	gtcaagagtc	tattgaaata	360
ttattcaaac	tggttttaat	gtatgccaat	agagaaccat	attattaa		408

<210> 2428

<211> 882

<212> DNA

<213> B.fragilis

<400> 2428

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aagtacatcg	atatgaaaag	agtttttattc	atactatgta	gtataccctt	acttctattt	180
tcaccggttt	ctttcgcaaa	tgcccaggaa	accagtgtat	tctcaaaaact	aaacccggaa	240
gattacacca	acatttcact	tcctcccctc	gatctgttat	tcgaaaacgc	caaaggaggga	300
ccgatctatg	aacttgccag	tgtaaaagag	cagatcgaac	gcaaaactgct	ggcaaaaagaa	360
agacgggctg	ttctacagtt	tttcagtgtg	cggggcagct	accagtgggg	ccgtttcgga	420
gtagacaata	cctttacgga	cgtagcgact	ccgattatgt	acaattacag	cacttccaaa	480
cagaaaaatgt	atactgtagg	cggggccata	aacattccgt	ttaatgaatt	atttgattta	540
gtcccacgtg	taaggcgcca	gaaattaact	gtcaaaacag	ctgttctgga	acggggaagtt	600
aaattttgaag	agatgaagcg	ggaaatcata	gaatttatatg	ccacggcaac	ctctcagctc	660
aatgtgctaa	aattgcgtgc	agaagccttg	gaattggcta	atatgcaata	cgatattgca	720
gagaagaact	ttgttaacaa	tacgatcaat	acaggagacc	tttctgtgga	aaaagaaagg	780
cagtccaccg	cattagaagc	atttgagaaa	agccgatttg	aagtaaccaa	aagcctgatg	840
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<210> 2429

<211> 993

<212> DNA

<213> B.fragilis

<400> 2429

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cttttcgcaag	acaaaaggaat	taaaacaatc	gggaacggaa	gtgcatacat	acaagcatcc	180
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cgggtatatg	ttcgtcatcc	taaaccccaa	cgtgaatacg	tgctgccgaa	aggctatttg	300
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gaacggatgt	tagtacgcat	aatgggtaaa	aggaaaaagt	gccgttattc	gttggttatca	780
gaaaaagtat	tgaatgagct	acgaacatat	tacaaagagt	accgtccgaa	gaaatggctg	840

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tttgagggggg atagtcccgg tgagcaatat tcggcgagcg cattgggttaa agtactgaaa 900
agaggctgcc gaacgtgcag gtatcaaaca tcgggtacat gtacacatgc tccgtcactc 960
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<210> 2430
<211> 684
<212> DNA
<213> B.fragilis

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<400> 2430
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aaaatgaaaa ttaccctga tgaattactg atagccgcgt tcaagctgtt tatgtccgtg 120
aactatgaaa aagccagttt tgcggaactt ggaaagatgc ttggaatgtc gaaagccgga 180
atattcaaat actacaagaa caaacaggaa ctatttattg ccgtagtgga taaattttgg 240
ttcagcacgc aaaatccacg aaacaaattc actgaaacaa acggtacatt tgccgaattt 300
atagacgaat atgtgctggg cgtacaacgg acaatggata tgctgggcga cctgataggt 360
gcagagcggg aaaaggtggc acaaggaaag ttcacatata acgcccataa ttttcatttt 420
ctgtttcaac tgctccaata cgatcctgat gcaaaagaaa aactccgtaa tctttagat 480
gggtgattatg cttactggcg tgctgctata caacgtgcc tagctaccgg agaactaaga 540
gaggatgtgg atgtagagga tgcggtagtc atgttccgac aggtttacat gggactttcg 600
tttgaaatgg catttatggg cggattgaac acccagcggc ttgccaaaca tctacatgcc 660
gtttactcct tattaagcg ttaa 684

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<210> 2431
<211> 708
<212> DNA
<213> B.fragilis

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<400> 2431
aacttagagt atatgagtga caaacatttg gtatgtaaag gggctactgt ttattgcagc 60
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cttgtagaac tgaatggcgg gaaagttagc gcaacggata aggattgtac tcttgccaat 180
atgtgttttg gtaattgtaa tacaggcact aatccccctc ctcttgtgt ggcgaatgtg 240
caatggagta aattctacga aggtgctggg gtgacagagg cggggatgaa acttctgaca 300
gaggatcgcg aagctacctg catggctttt ggcggtaaa tgaagatagc ttttcatggg 360
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gaaatatatc cagggaagaa ggtgaccctt tgtcttaaaa catcaggata tgttgaagga 600
gaacaagctg acatcaaat caagatggaa gacgggaaag aaaagaccgc ttcgggcgag 660
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<210> 2432
<211> 756
<212> DNA
<213> B.fragilis

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<400> 2432
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gacagcatac ggaacgcatt tgcagactgg cagtatgccg tcattccgca agctccggac 180
agcacaccta tcttgcaggt agctctgttc agcaaatac cggatgaagga cagcagactg 240
atcacttatc ccgattcaag gaattgcagt atgtggtgcg atctggacgt aaacggacaa 300
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ctggaaaagg aactggctaa aaacgaactg acaggcagag aggaagcagt ggccaggcaa 420
ttgttggagg gactcaacga aaacttcagg caacggcagg cacaggcaaa gactttggaa 480
caattaatcc gcaccacccc ctacctata ctggtttgcg gtgactttaa ctctctccca 540
tcgtcctaca catacagtac cgtgaaaggt gacaatcttc aagacggatt ccagacttgc 600
ggacatgggt acatgtatac gttccggtac tttaaacgcc tgctgagaat cgactatatt 660

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ttccattcca aagaatttaa aggggtagat tactattcgc ctgacctcga tttgtgcagt 720
gatcataatc cggtagtgat ggaggtgaag atgtaa 756

<210> 2433
<211> 2487
<212> DNA
<213> B.fragilis

<400> 2433
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cacaaagagg taggtctgcg ttcgtttgtc gaatcggttg gtaaggacgc cgattacttg 180
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<210> 2434
<211> 231
<212> DNA
<213> B.fragilis

<400> 2434
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agccgttccg	gtggctatct	gtatgacgaa	actccgcagg	gcgatgaact	taaactcttt	180
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<210> 2435

<211> 489

<212> DNA

<213> B.fragilis

<400> 2435

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<210> 2436

<211> 264

<212> DNA

<213> B.fragilis

<400> 2436

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ctattgaata	tactatcatt	tcgcattgat	aatgtgcaaa	ttttctcact	aatagtttat	180
atgattttca	aattgatgat	gatgggttcc	cggttcgtga	gggttcggtt	gtatgtgtct	240
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<210> 2437

<211> 1260

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (1201)

<223> Identity of nucleotide sequences at the above locations are unknown.

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ttcaacacgg	acacagccaa	gcaagacagc	accctgccc	tttcgaaacg	tgaactgcgg	180
cgtcagcggg	tagcccggcg	caaccttcat	tacaatattc	tcggagggcc	cagctacacc	240
cccgaacttcg	gcctgctgat	tggcgggaagt	gctttgatga	cttttcgtat	gaacccgagc	300
gacaccaccc	agcaacgctc	cgtggtacct	gtagccatcg	cactgatgtt	caacggcgga	360
ctcaatttgt	tctccaagcc	gcaactattc	tttaaaggcg	accgcttccg	catcttcgga	420
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aacatgggtg	tgggtctccg	cattgaagtg	cagccccgca	tgaacgtccg	cctcgacctg	1200
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<210> 2438

<211> 882

<212> DNA

<213> B.fragilis

<400> 2438

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<210> 2439

<211> 1755

<212> DNA

<213> B.fragilis

<400> 2439

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<210> 2440

<211> 921

<212> DNA

<213> B.fragilis

<400> 2440

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<210> 2441

<211> 459

<212> DNA

<213> B.fragilis

<400> 2441

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ccgctgaaac	actttgatta	cggattgagc	cgtaatgtgg	ggcgtaaagg	tgaaatcact	180
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aactacgatt	cgcggtgtaa	aaaagggtgtg	gtgactatca	ttgtgataga	agccaaagag	420
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<210> 2442

<211> 1170

<212> DNA

<213> B.fragilis

<400> 2442

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<210> 2443

<211> 1227

<212> DNA

<213> B.fragilis

<400> 2443

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gaactctttg	tgaaacctgt	ccggcgacag	ctcccccg	acaagagact	gccggacgtg	180
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<211> 459

<212> DNA

<213> B.fragilis

<400> 2444

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<210> 2445

<211> 453

<212> DNA

<213> B.fragilis

<400> 2445
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 gtaaaccctac aagaagtcgt cagggaagaa gttctggata accggatgat acgtaagcgg 360
 gtagatatta cagtactcgc cacattgaat tccaccgggtg ctccctgcggtg tttcgggttac 420
 aaattataca tgggaccttt atcaaacgaa taa 453

<210> 2446
 <211> 399
 <212> DNA
 <213> B.fragilis

<400> 2446
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 aatactacca tagagaatgc acaacaactg gttaaaaact ttcattcctct ccaacagcca 180
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 cttgctctat atgggtgaaac gtattggcctt atacatcctg aatgtgaaaa actgccccgat 300
 agctatgaga aatgggtaga aaatgcttta tctcggcatt cgtttagatga ctgttatgaa 360
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<210> 2447
 <211> 1314
 <212> DNA
 <213> B.fragilis

<400> 2447
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 <211> 282
 <212> DNA
 <213> B.fragilis

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<210> 2449
<211> 303
<212> DNA
<213> B.fragilis

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<210> 2450
<211> 1404
<212> DNA
<213> B.fragilis

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<210> 2451
<211> 450
<212> DNA
<213> B.fragilis

<400> 2451
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<210> 2452

<211> 810

<212> DNA

<213> B. fragilis

<400> 2452

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<210> 2453

<211> 1899

<212> DNA

<213> B. fragilis

<400> 2453

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<210> 2454

<211> 1395

<212> DNA

<213> B. fragilis

<400> 2454

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<210> 2455

<211> 2406

<212> DNA

<213> B. fragilis

<400> 2455

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<210> 2456

<211> 465

<212> DNA

<213> B.fragilis

<400> 2456

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<210> 2457

<211> 2805

<212> DNA

<213> B.fragilis

<400> 2457

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<210> 2458

<211> 255

<212> DNA

<213> B.fragilis

<400> 2458

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<210> 2459

<211> 219

<212> DNA

<213> B.fragilis

<400> 2459

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219

<210> 2460

<211> 1488

<212> DNA

<213> B.fragilis

<400> 2460

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<210> 2461

<211> 789

<212> DNA

<213> B.fragilis

<400> 2461

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agcgagttgg	gatgcgtgga	agcaaactta	ttgttacc	tatgcaaaaga	gtgtgatacg	780
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<210> 2462

<211> 183

<212> DNA

<213> B.fragilis

<400> 2462

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ttccagaact	tcttatatat	ctcttattat	atcgctctcc	ctgataataa	aggtagtcga	180
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<210> 2463

<211> 2316

<212> DNA

<213> B.fragilis

<400> 2463

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gctgttaaga	ttcgaataac	agcagaatgc	cataatgtga	ctatacccaa	aaacggatta	180
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ggcgtgggta	tggtgcattg	tcctaatttc	ttttgcggtc	gtgttatgac	cataaaagta	300
aaagttaatt	tagaaattag	caaattcgac	gaaaagataa	aattctcttc	ttttgatttc	360
gggaaattcg	atacattgga	ggatactatt	gagattaaac	ctcaatgtaa	taaaaagctt	420
tcagacaatg	ccgagtggtc	tccggacgaa	gtagaaatgc	ccaattgctg	acaaagctca	480
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cccgaaataa	acggagaacc	tcttccccct	ttgattgccc	cctgttccat	atggaaagga	2280
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<210> 2464

<211> 966

<212> DNA

<213> B.fragilis

<400> 2464

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accgctcaaa	ttatgatggg	gcgtgacggg	aataacctga	gcaatgtttc	gaaagatatc	180
cgatcgggtga	agtacagaaa	tcatgtcggg	atagcggagg	ggacatacat	agaactaaag	240
accaaccgcc	gggggattta	tgattcgctg	ccggagggat	tggtccatga	ggcgctcttt	300
cccggcaagg	tgaaagattt	gggacttatt	ctggaagaga	tgcaacaaca	tagtaacgaa	360
gagttcttta	tccgcccgtt	tttcagcctg	ctggagagcg	aagtggacag	agaagggata	420
caggcacaat	tgctcgaatt	gcggtacgat	aaaaagaaca	aatattctga	ttatgcgaaa	480
ctctttgccc	cttgctggcc	ggtcattcat	atcttctg	gacagggggc	gttgctgttc	540
atcaagttca	tgccgcatac	ccattcgatc	cggggcagac	tggaagaggt	aagcgacgca	600
ctgtcgcaga	ttctggaagc	tccagtaaag	gtacgcccga	aaatgggtga	acggacaata	660
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gggggtgctta	atagtgcggg	agctgatttg	catatacaca	taagcgacct	gccaacacgg	780
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atctttcttg	gtgctgggca	ggagttcgat	gtgacgggtc	gcgttagtcc	tgacgaacgc	900
aagacttatt	taaaaccgac	gggtgacgcc	agtccgtgtt	acctcggaat	aaacacttat	960
ttataa						966

<210> 2465

<211> 924

<212> DNA

<213> B.fragilis

<400> 2465

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gttcccaccg	tagcctccat	tgacgagacc	atccgacata	tcacggaggg	aaaccgttcc	180
atcagcagat	tccgagacgg	agagatgcta	ctgacaagcc	cctccaaatc	catcggttcc	240
caggaaggct	ctccgctgct	tgcaaagcgc	ctgcgagaag	tgctgggtcag	ccacgaagaa	300
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cccggacgaa	aatacgaaaa	cgcatttctc	tcacgccctt	atatggacta	tacatccaag	480
gaacattgcg	cacgttggtt	tccgggaactc	aagaccattt	gggaaggacg	cgacatcggtg	540
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gatgtggagt	acgaatgggtg	gcggatgaaa	gcacggagaa	aggtgaaact	ggaaaagaaa	840
tacgtgaacg	aagcattcgg	aaacaagcgg	gtaaccgacg	caggtgaagg	gtatcggaaa	900
gagattatcg	cccaaataag	ttaa				924

<210> 2466

<211> 477

<212> DNA

<213> B.fragilis

<400> 2466

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atatgtgtga	gctgttcggc	gctgtttgca	agctgggttg	catggcattg	ggtacaccct	180
ttttcttatg	taaagtattt	attgtgtggc	ttgcttactg	catttttgtt	tcatgcaggc	240
ttaactattg	gttgacagat	tccaattatc	tttttatctt	gttggtgggt	tcatgtgata	300
agtacagaag	ctataactct	gtgggaagta	ttaagctatc	tttttagcat	tttcattatg	360
tctttctatt	ttgtgggaat	ttttactttt	ggacaatgct	tgctaacagc	gagcataaca	420
aagataataa	tatggaaatt	gaatataagt	aacaatatca	ctaataacgc	aagataa	477

<210> 2467

<211> 321

<212> DNA

<213> B.fragilis

<400> 2467

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aggctgacag	cagtcaatga	tagtatagac	tggactgttt	tattcatcgc	acaattgtta	180
gtaatggttc	agcagggaac	ggcttgccgt	tatcttgccg	tattagtgat	attgttactt	240
atattcaatt	tccatattat	tatctttggt	atgctcgctg	ttagcaagca	ttgtccaaaa	300
gtaaaaattc	ccacaaaata	g				321

<210> 2468

<211> 195

<212> DNA

<213> B.fragilis

<400> 2468

gataatacaa	tgccatatat	tactattgaa	gggggggtcac	tcacccgtga	acaaaaaagt	60
gaattaatcc	gaaaagtgc	agaagtagct	tcggaagtca	tgcaaatccc	tatggaattc	120
tttttatgta	cgggtcaaaga	attaccagat	gaaaatatag	gaataggagg	tcggaccatt	180
gacttgatta	aataa					195

<210> 2469

<211> 864

<212> DNA

<213> B.fragilis

<400> 2469

caaatgaaaa	taatggagat	taaatatata	ttttgtatcg	tcttttggtt	ttgggcaatg	60
aaaacgacaa	tggcacaaag	cgacaataac	ttgtttgctt	tggaaaaaca	gctttgtttt	120
attcaagata	cactatctat	actacggcaa	aattatccct	atacagatga	taattactgc	180
gattctttac	aacatagatt	ctctatcctg	ctggaagaac	tttgtgcagt	cgataaagaa	240
atgaaatacg	attttataga	attgaggaaa	aaagaacggc	aatttactat	ggcagtatca	300
gtagacgagg	atagtggggt	attttcccg	aacacttatt	tcggtgggtc	gatgccattg	360
tttgcttctt	atattcaata	taaggataaa	gaacacttgt	atttcttcga	tataaacgag	420
gataatgata	tgggaatatg	ttatgatata	atttattcca	ttcaggcatt	gaataaaaaga	480
tattacctgc	tttcaggaac	aagccaaata	gcggcgccat	atccttttagt	ggtaatgaaa	540
gctgttagtt	gtgcaaacgg	agagttgaag	aaagaaataa	tatttggttc	cggtaatcag	600
caaacagatt	atttgtctat	ctcttatcgc	tatgtaaaag	ataacataga	cacacgatta	660
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ttaaagcctg	ttaccgtgag	agataaagac	gatatcaaat	atcgcgtgg	agaaattgac	780
gtttataaac	ttgaaagaaa	taagaatgaa	ataaaattca	tcaataacaa	cgaaagttac	840
cacctaaacg	atgatccttt	ctaa				864

<210> 2470

<211> 198

<212> DNA

<213> B.fragilis

<400> 2470

gctgagcgga	tagagtacgg	ctatcaacag	gatgctgacc	atcaggggcg	agatcagttg	60
gatggcgaaa	tggcgcaagc	tgcggtgcag	cgctcatccg	tacatcatcc	agtagcactg	120
agcgaagttg	acggtaaagc	tgagcgtgat	gcattgtggc	acagcttcga	gcgtgccgaa	180
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<210> 2471

<211> 336

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (310), (312), (315), (320), (328), (333)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2471

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agtgagaaa	tc	atccgt	gg	atatttt	ggag	tttgcc	ggcg	gactgt	tta	cagtac	ggct	120
ttgagcat	gg	cactgt	ctac	aggcttt	tatc	catac	gaatg	gaagc	gaata	taaact	gatg	180
gaatccaaa	cg	caaga	ata	cgataa	gatt	tacgc	cagac	agattg	ccct	ggtgg	ataag	240
gtggattc	gc	tgtata	acta	cctgg	tgtg	atgg	tcttc	ccacg	ggg	gct		300
gctgcaat	tn	cnaana	gccn	ctctatt	tncc	aancc						336

<210> 2472

<211> 315

<212> DNA

<213> B.fragilis

<400> 2472

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cagatagg	ct	acgcaa	agt	ccagc	ggaac	gaacag	gatc	cagtc	gacca	agct	cagatg	120
agtatcata	aa	gtctta	aatgt	aggttat	ggg	tcgatata	tatt	tgtgt	aaaatc	ggtt	caactg	180
tggttcac	ca	cagatt	acac	agaggat	cat	ttcggc	agag	tctta	acagaa	tcct	atagaa	240
tctcagaga	aa	ttccac	agga	tttca	ctttc	tcgttt	atg	atatc	ccccca	agaaa	atgat	300
tcctctct	gt	gttaa										315

<210> 2473

<211> 3747

<212> DNA

<213> B.fragilis

<400> 2473

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gtgctggcac	gt	ctgatt	tc	accgg	acgac	ttcgg	cgtga	tggcc	gtagc	cacgg	taatc	180
atcgcttttt	tca	actt	ggt	tactg	acgtg	ggact	gtctc	ccgcc	atcat	ccagc	acaag	240
acactgaccg	gag	aaaat	ct	gtctg	ggcctc	ttctc	ccttca	ccgtc	ctggac	aggca	ttggg	300
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ctgcgcccc	tgt	gccag	ct	gctgg	ctgtc	aacct	atttt	ttg	cttccg	caccat	cggt	420
cccaatgcgc	tgt	cttacc	g	caataa	agag	tttaag	ttca	tcgcc	ctgcg	gagtt	tcgtc	480
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<210> 2474

<211> 213

<212> DNA

<213> B. fragilis

<400> 2474

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tttctggaaa	aagcaatggc	tatctattta	ttggataata	cttcttttgg	agagcacgga	120
ttcgatttgg	ctaataccgaa	gctaattgaa	gaggcgatta	atgacgggag	aattaaacca	180
ttcccagag	cgactagaaa	aacaaaagat	taa			213

<210> 2475

<211> 1467

<212> DNA

<213> B. fragilis

<400> 2475

gttaatggag	ttatattaat	gacatgtaaa	tatgatagga	taatgaatat	aaaaacactt	60
ttgattatgg	gattagttaa	tatgttttgg	ttaggtgggt	gtgccaatgc	cgaaataggg	120
aaacaagttc	tcaatctgga	tgacttggat	tatggcattg	acgtagtccg	ctattatgct	180
ccggctatgg	aagagagcaa	agacactgta	gaagagcatt	attacgtaaa	cagagatagc	240
gtgaagtttt	atgatacggg	aacggacaaa	cttcttccgg	tcttgattgc	ataccgccat	300

cttgccgggag	tggtgaagga	acaagccact	ttctgtggac	atagctttac	aatgtgagc	360
atggctacaa	tggaagacgg	acatttgata	atgggtgcagt	gcgaagtcga	gatgcagcca	420
gccgacctct	cccaactact	ggcagcagcc	gtcaagaaat	acggagagcc	ttacacggaa	480
gaaaaggacc	aattttggcaa	acctgatcct	aaatggcgct	gggaaacaaa	ggacgagtat	540
atccaactga	acgctaaaaa	tatgagcggg	aaggaaacac	taaacataga	aacgacggac	600
aatgtggaag	aacctgtcaa	aataggaaat	cggaaaccct	atgtgaaagt	tgccctatac	660
cgctgggcga	aaaagtacca	tgatttggtg	cttgccgaag	aacctctata	cggcttttcg	720
ccgctcaata	aagaagccga	aacgcgttgg	gataacgacc	acataaaaag	tgcgaaattc	780
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gatagagacg	atatacgacg	aagggttctt	ataatcaatg	acaatataaa	agaagagttg	1260
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tatgactatc	tatcgacat	aaagtaa				1467

<210> 2476

<211> 360

<212> DNA

<213> B.fragilis

<400> 2476

ctcaaattctt	ttccggagtt	ttcctttttat	tccgctgccg	tagtcccgcga	gcgtgtgatt	60
gtctatcatc	cggcatttgt	gtccattttc	ctcggttcaga	taacatgtgt	gcacgtccat	120
tccgcactct	ttcagcgctt	ttacctgata	gcggattttc	ttgctgatgc	cgttcgcttc	180
ttcaaattccg	tggaatataa	gaaacagtgc	tttcatcggt	tgtttttgtt	tatgatgctt	240
tttgcccttg	ccagtgatgt	cgtattcacc	ggtcaactgt	atatagcacc	caaataataca	300
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<210> 2477

<211> 393

<212> DNA

<213> B.fragilis

<400> 2477

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ggacaaattc	gtctgcatgt	ggaatcgact	gatgatactt	ccattctgga	gaacatgacc	180
aatcagttta	aacctcattc	cggcagcatc	gtcttcaaaa	aaggagatga	agaagccaag	240
atgaaggaac	ttacctggga	aaacggatac	attaccgaat	ttaccgaaaa	catcgacatt	300
gtcggctcgc	agccgatgac	tatcactttt	gtcgtatcgg	ctcaggtaat	caagattggt	360
ggcgacacat	ttgaacagaa	ttggccgaag	ttaa			393

<210> 2478

<211> 1836

<212> DNA

<213> B.fragilis

<400> 2478

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ttcaaacagg	cggcaaccct	atatgacata	cgaatatatag	atggcataga	cccccttatt	120
cgactgctga	ttgaagcctt	gtcgggcgaa	attttcaagc	tgtccggtga	tatgcacgcc	180
attgaaagcc	gattgttgga	gaaagtcgct	tccgccctta	ctccacacac	ggcattgggt	240
gccaaaccgg	cccatgctat	tgctgctgcc	cgaccatata	caccgcaagc	tactgtatct	300

cccacagacc	tgttttctta	taaaagcacg	gagatagtga	agaagtataa	gatgaaaaat	360
ctcttcttta	ctccgctgca	tgaacccgc	ataatcaatg	ccgaactgaa	gtttctcgtg	420
acggcggatg	aattttgcac	aatcactccc	gaaggagaac	gtgacgccac	tgcccgcgtt	480
cgttccgatg	tgccggtaat	gggtcggaaa	atcagtatcg	ggatgaaaat	aggcaacaat	540
gtaactaccc	tcaacgactt	gccgttatat	atagatatac	cgcttgtagc	agataaaaagc	600
agttatctga	aattactgcc	gtactgccat	tgacgattg	ccggtattcc	tgtagaaatt	660
aaagggggaa	tcgagtacgc	ccccacacgt	tcggtcagtg	agaaatacga	tcttggcagg	720
ttgattacgg	aagaaataac	cagcaaatat	gcttcccatt	acctgacatt	gaaagctcac	780
ggattaaaag	tcagagattt	gtcacgtagc	agagtgcctg	aagaaatctc	tttcctgctg	840
ccaagtgatt	tcattgctga	atgtgatgcg	gatactgttt	ggatagatat	agaatttccc	900
accgcttttt	caaaagaaat	actggaacag	ataaagggtg	agatgaacac	ttttatcgta	960
gtaaacaaat	atccggcaaa	gattaccaga	aaggtagatt	ccgtctcggc	cattctccct	1020
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gaccggctta	gggaaatttc	cggcacacag	gatgaaggta	gggccggctg	ttattcggct	1140
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acagacctgc	tatatgacga	aagcatggcc	ttctcttcga	cagacaaaga	cggaatgaaa	1260
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ttcgcccatg	gaggagagcc	ctcccccttc	gtaaggcgcc	ggatggatat	gtacccgatc	1560
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gaaagcgaag	gtttcataag	gacgctggac	gtgtatctac	ggctatcgga	ggggatgcaa	1740
ggattagacc	gggacgaatt	cgctcgttgat	ttggacagtg	agctcaggcg	gttgtctccg	1800
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<210> 2479

<211> 552

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (319)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2479

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attgcactga	cttttgtcct	ggccggcatc	accattgccc	gagcattcgc	cggacacata	120
cctcccgagc	actccactct	gatgcctttc	atcgggctgg	cgctgtcagg	actgttattg	180
atcaatcttg	tcgccgccat	ttactggggg	attcgcggga	ggttctggat	catcattccg	240
ttgatagcca	tagctgccaa	ctggcaatat	ctgggtcgga	tcttccaact	tcttttacgg	300
tcggaggaaa	aagaggcana	tacactgaaa	atagcgacat	acaagggtga	cagtttcggt	360
acgaagcagt	cgggatattc	gtgcaaggag	attgcggctt	atatgaaaga	gcaccgggtg	420
gacattatct	gctttcagga	gtttgtcggg	caaccgggtac	ttttacttca	gacagcatac	480
ggaacgcatt	tgcagactgg	cagtatgccg	tcattccgca	agctccggac	agcacaccta	540
tcttgcaggt	ag					552

<210> 2480

<211> 996

<212> DNA

<213> B.fragilis

<400> 2480

gagttaaatt	ctaaaataat	gaatataaga	aattttat	ttttaggtag	tatattactt	60
ttattgagct	gcaaaaatag	taaacagcag	gaagggtata	attctattaa	tattattaaa	120
tatattaata	tttataatga	aaacaacagg	attctaactg	cacaaggtac	tgaatatgac	180
tatctctatt	ttggagacaa	taaagataaa	gagatcttgg	cgaatgtaaa	taattttaca	240

aagacatata	gttatgataa	tgattcttcc	tgctatactg	tagaggaacc	cttgtcggaa	300
tcattgctaa	aaacaatgag	atacactgaa	aataccatag	aagaacttgt	attggaaaat	360
aataaaagaca	catttagtta	tactttttct	acctattatg	ataagaataa	gcctaagtat	420
aataaaagta	ttataatatt	aggagatgaa	ccctcttctg	actcaagata	tgaggaatac	480
tactactatg	ataataatgg	aaataatacg	aagaaaatcc	atcatgattt	aaacaccggg	540
caaagagaag	aaacctataa	atttaaatgat	acagattata	aagaagctgt	taatcttgtc	600
ccttcttccg	attacaaaca	aaatatcgag	tgttcattga	aacaaactgt	taatgatacc	660
ttaatcactc	ggattacctt	aaacgggtga	cttaatagag	tgatgaagga	atacattgat	720
ggaaaaaaga	aaattaagga	agagttggac	aatgatatga	ctttagtcaa	taaaaaaaca	780
gagtatgaag	aaaacggact	gaaagtaaac	gtcaatcata	ctataagaag	tacaggctac	840
tcaaccgaca	gtatctatta	taaaggggaa	aaaaaagtta	agcatatcta	caattccgac	900
tacaatggta	ccataacact	tgaaatctca	gaatatgatg	agcaaggaaa	tatagtaaa	960
aaaacaaaaa	aactcagatg	gccatcagat	aaataa			996

<210> 2481

<211> 303

<212> DNA

<213> B.fragilis

<400> 2481

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gggaccttcc	tctcagaacc	cctatccatc	gaaggcttgg	tgagccgtta	cctcaccaac	120
aacctaattg	aacgcattcc	catcctttac	cggaatcctt	taataatgaa	accatgcgga	180
atcattatgc	tatcgggtat	taatctttct	ttcgaaaggc	tatccccgag	taaagggcag	240
gttggatacg	tgttactcac	cctgtgcgccg	gtcgccagca	aagaaagcaa	gctttcttcc	300
tga						303

<210> 2482

<211> 192

<212> DNA

<213> B.fragilis

<400> 2482

cctccaacaa	agttggatga	cattccttca	gaatgccggg	ttgtcccat	cggaatctt	60
cggatcaaag	gtcatttgca	cctacccgaa	gcttatcgca	gcttatcacg	tccttcacgc	120
cctccgagag	ccaaggcatc	cgccatgcgc	ccttatttac	tttcttttat	cgccagggat	180
catttccttt	ga					192

<210> 2483

<211> 189

<212> DNA

<213> B.fragilis

<400> 2483

tgtagaggtc	ggcagttcaa	ctctgcctgg	gactaccaac	agatagatat	tttatcttgt	60
atgattgggg	gattagctca	gctggctaga	gcatctgcct	tgacacgaga	gggtcaacgg	120
ttcgaatccg	ttattctcca	ctccgatacc	gcaaccgaac	aggcttgcgt	gttatcaaac	180
gatctttga						189

<210> 2484

<211> 2004

<212> DNA

<213> B.fragilis

<400> 2484

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gtcacggcct	taaaaaatgc	attgcgttat	atccctgtag	aactgcacag	aaaactggct	180
cctgaatttc	tggaggagtt	gcggaccggg	ggacgaatct	atgggtaccg	ttttcgtccg	240

gcaggcgacc	tcaaagccaa	acccgtcgac	gaatatcagg	ggaactgtat	tgaaggcaag	300
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tatggccaga	tgacagccgg	cggatggatg	tacattgggtc	cgcagggtat	tgtgcatggc	660
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ggtacggatt	cacccttcgg	tgaaacctct	aatatcaaa	atggcagcaa	tgtaatggcc	1680
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ggagtggccc	gccgttcgtg	ggcccgcaat	gaacatgcga	tggaaaccag	cgaagcgttc	1920
aatctgtcac	atggtgatgc	ctaccacatc	acgctgcctt	atctggcaga	tgaagagctg	1980
ataaagagaa	tagttgcgga	ataa				2004

<210> 2485

<211> 246

<212> DNA

<213> B.fragilis

<400> 2485

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gccctgtcta	atgcccatct	taaaaaatct	gatcgactct	tccgagtcct	gctcccgata	120
gttcttcagc	agactgtgta	ctttcggata	cttctttata	tcttcaaaaa	aacgcttggt	180
agtccgatgg	aatgtctcaa	tgctccgctg	ataacacaca	agaatgactt	caagaacatt	240
ctttga						246

<210> 2486

<211> 636

<212> DNA

<213> B.fragilis

<400> 2486

agaattatgt	tagcagaatt	gaccgtaaaa	gaatttttag	ataaagtagc	cggtagtgat	60
cctgtaccgg	gaggcggcag	tgtggctgct	cttaacgggt	cggtggcctc	ggcgctgact	120
gcaatggtgg	ccggacttac	catcgggaag	aaaggatacg	aagaacatga	agagttgatg	180
aagcatatth	cccgtctgag	catccggcaa	caggagcttt	ttgttgaata	cattgaccgt	240
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gacgagctga	agcgggaagc	cgaccatttg	gaacaattgg	catgcatgcg	tgagaaagaa	600

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636

<210> 2487

<211> 984

<212> DNA

<213> B.fragilis

<400> 2487

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acttttcagta	tcacgcaacg	catcattaac	gaaaacctga	aacttgaact	ggctcccgaa	120
gccgaacagc	gcacccggaa	atgccgtgat	tatctcgacc	ggaaaattgc	ggcttccacc	180
gagccgctgt	atggtatcac	taccggtttc	ggttcggtgt	gcagtaaaaa	catatcgctc	240
gatgaactca	acaccttgca	agagaatctt	gtgaaaagcc	atgcgtgcag	tgtgggtgag	300
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gaaagatgcc	atccgggacg	gcttttccgg	tttggggacc	gagataattc	caagtgcggc	960
cattccgccc	tttttcccg	ataa				984

<210> 2488

<211> 930

<212> DNA

<213> B.fragilis

<400> 2488

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aacttcagtg	aagggcgagg	tttggaaaag	atggatcgta	ttgtcgctcc	gttccgtgcc	120
cggctctggg	tgaattgct	cgattatagc	aatgatgaag	atcacaaccg	actggtagta	180
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gtggaattga	tagatcttaa	tcaccacccg	gggcagcatc	cccgcattgg	ggccgttgat	300
gtagtgcctt	ttattcccat	taaaaacgtg	acgatggacg	aagccgtctc	tctttcccg	360
gagataggag	agaaggtagc	cgggctttat	caccttcctg	tcttccttta	tgagaaatcg	420
gcyacagccc	ctcatcgtag	aaatctggca	gctgttcgca	aaggagagtt	cgaagggtatg	480
gccgagaaga	tgaactgcc	cgaatggcat	cccgattacg	gtcctgccgg	atgccatcct	540
acagccgggg	tagtcgtat	cgggtgcccgt	atgccgctgg	tggcttataa	tatcaatctg	600
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tctatcaaca	tgaccgacta	taccgtagc	gcactttatc	gtgctttcga	gttgggtgcg	780
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atggaagcac	tgatcgatac	tgcttcctac	tacctcggtc	tggagaattt	ctccatgcgg	900
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<210> 2489

<211> 309

<212> DNA

<213> B.fragilis

<400> 2489

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<212> DNA
<213> B.fragilis

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<212> DNA
<213> B.fragilis

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<210> 2492
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<212> DNA
<213> B.fragilis

<400> 2492
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<212> DNA
<213> B.fragilis

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<210> 2494

<211> 3066

<212> DNA

<213> B.fragilis

<400> 2494

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<211> 195

<212> DNA

<213> B.fragilis

<400> 2495

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<210> 2496

<211> 228

<212> DNA

<213> B.fragilis

<400> 2496

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<212> DNA

<213> B.fragilis

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 <212> DNA
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 <212> DNA
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 <212> DNA
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<210> 2501

<211> 1362

<212> DNA

<213> B.fragilis

<400> 2501

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<210> 2502

<211> 480

<212> DNA

<213> B.fragilis

<400> 2502

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gccaatgccg	ctaccaaaact	tttccggatc	atggataatc	tggagcatac	ccttgccatc	300
gagttgatga	atgctgcgca	gggaattgag	tttcgtcgtc	cggcaaaaac	ttctcccatc	360
cttgagcgct	atctggctgc	atatcgtaaa	gaggttccgt	ttgtaaagga	tgatcatcgtg	420
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<210> 2503
 <211> 1578
 <212> DNA
 <213> B.fragilis

<400> 2503
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 ctgttgaggg ctttcaaata taatccggat gcgccgatga tattcagcag cggaattttt 180
 ctttggtgtg tcgctgcgtt tatggtaatc tataactgtg tgcaacatcg caatacggta 240
 cggattctgt ttgttgctct tttctcctat tatttttatt acaagagtag tggaacctat 300
 tttttcctgt tggctatcgt tactgttacc gattttatga tagcctggct gatggatcga 360
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 agttgggaaa atgccgtttg ccgtggagtg atcaagcttc ctttcttagg taaagctatt 1500
 gtaatggtgg ctatgattta tctggtcatc cagatgaaga gcagtgagat tcagccgttc 1560
 atctatttcc agttctag 1578

<210> 2504
 <211> 192
 <212> DNA
 <213> B.fragilis

<400> 2504
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 aacaaagtgg aactgggacg tcgcatgggg gctgaatatg aattgaaatc cgggtgtacc 120
 aataattctc aggtagtcac tgccggtcag acccgattga tcaacggcac tgaggtagag 180
 gtagaaaaat aa 192

<210> 2505
 <211> 594
 <212> DNA
 <213> B.fragilis

<400> 2505
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 gttattgcgg aagaggatgc agaaaacata gtgcaagata ccttccttta tctatgggaa 180
 catctggagt tattggaaga tatagaccat ctggatgcct ttctttttac tcttatcaaa 240
 aacagatgtc tgaactttct gaaacatcag tcgtatatcc aggccaaaaac ctgttcgctc 300
 aaagcagacg aagaactgga gtctcaattg aacctatatg ctttggaaac atttgacgaa 360
 gctgtttcct ctatttcgga agtagaaaac ctgttgagcc gaacgatgca aaagctgccc 420

gaacgttgca	gagaaatcctt	tttgctcagt	cgcatagaag	gattaaaata	taaagaaata	480
gccgaacgcc	tggatatatc	cgtaaacacc	gttgaaaatc	agatatccat	cgcacttcgc	540
aaactcagat	cagaactcaa	agaatatcctt	cctttactgg	tttttatcat	ttaa	594

<210> 2506

<211> 234

<212> DNA

<213> B.fragilis

<400> 2506

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gggtagattg	tgattaaagc	aagtatgggg	gcagggaatt	ttaaaaagca	agggtgggaa	180
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<210> 2507

<211> 2436

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (2269)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2507

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tttcagcttc	aggctggtta	cgtaaaatcg	caagagggtcc	gtgtgactct	ttctaagagt	180
agcctgactt	tcggcgaatt	gatgcgcgaa	atcgaaaaac	agactaatta	tctgttcacg	240
tatcgtgatg	cagaaattga	cctttctcag	aaaatagagg	taaaaaacac	cagtgtctacg	300
gtaaaggaaa	tcctgacaac	ggcgctcaga	aacaaaaagt	tgacgtataa	attctctaata	360
aactacattt	ctcttttacgt	agacaaagag	aaagctcctg	agaccatggg	taccagcag	420
gaacgaaaaa	ttaaaattaa	gggtgtagtg	atcgatcagg	tcgggtgagcc	gattatcgga	480
gccaatatct	cactaaaagg	gcagccggga	acaggagata	tcacggacat	agaaggaaac	540
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caggaaatac	ctgtgaatgg	aaaagcatct	ttcaacattc	agatgaaaga	agatactaaa	660
accctggatg	aagtggtagt	tgtaggctac	ggttctcaga	aaaagcaaac	tgtaaccgct	720
tcggcttcta	cactaaaagt	atcttcactc	aaaaatgtgc	caaccgcaa	cctggcttct	780
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tattctatcc	agcaattgtt	tgccggaccg	gacaaagaca	aagacaacag	cggcagtgc	2100
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aacatcggtc	aattccagta	tatgtccgct	tatggtaccg	gcggtgatgc	cgtatttggc	2400
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<210> 2508

<211> 1041

<212> DNA

<213> B.fragilis

<400> 2508

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gaaaaaacag	aatttctgaa	taaactccga	gataatccgg	aagctaaaaa	agaattcgca	180
cgcataaggg	cagtatgggc	tgtctccgga	ctgatggcac	aggaaggaga	ccctcaaaag	240
actgtaaggg	gtatagcaga	gttcgataaa	cgtctgaaac	gccgttctgt	acatcgattc	300
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aaagggcaac	gagtgaacat	gacccttccg	gatgggtactt	ccgtatgggt	aagcccacag	480
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ttcaatatac	aggtattagg	taccgggttc	aacgtattcg	cctatgcagg	aaaagagagt	660
aagtttgaaa	cctgcctcgt	agaagggcgc	gtattggttt	ataacaaaaa	taataaaaaac	720
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aagcctttcg	gagaaatcct	gagctatctg	accctatgg	acaatgtgca	attcaatttt	900
accggagacg	tgaactgga	cgaacgaatc	tcaggcaaaa	tccgacaaag	cgaagatgtg	960
gataatatcc	tgatagcctt	gcagggagta	tatcctttta	aattcaaaaa	aacagatgat	1020
gaacattatg	agatttacta	a				1041

<210> 2509

<211> 1146

<212> DNA

<213> B.fragilis

<400> 2509

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actgaaaccc	gtttcccgaa	ccccaatatc	acttgggaaa	cttctgaaat	gttcaatatc	180
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tacatcgaag	gacgcggagg	agccctgctc	gaacatcaca	tcggcaacac	gtggacaccc	840
gaaaatccga	aagctgaatt	tccacgcttg	tactatggag	gcaatgccaa	taaccaattg	900
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tatgacttca	agaagttact	gttatccaag	gtatcggaaa	ttcagggact	gcgcctctac	1020
ttcagcggct	ccaacctgct	gacctggctg	cagatcaagt	acttcgaccc	agaattgcgt	1080
tccaccgacg	gaagcgctta	tcttcaaatg	aaaacctttg	tgtttgggtg	taacattaca	1140

ttctaa

1146

<210> 2510
 <211> 504
 <212> DNA
 <213> B.fragilis

<400> 2510
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 tttgccagtg gaggatattg gttaggaatt agcataatat tactgctgtt agttatcatg 180
 gttgtaacct atttttgtat tcctcggaaa attattgtga ccgatacggg tattgtgctt 240
 tataatcatg gatttaaaag aaaaattccc aagtgcgata tattgaaagc aagaagcgtc 300
 actgcaaagg atagaaatgg tctgtggcgt aagtttgcag ttgaagggtg ttggggggtat 360
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 aactggattt tgattgaaac tgaaagaaag aattatattg tatcaccgga aaatctggat 480
 ataatagatg tgattaataa ataa 504

<210> 2511
 <211> 285
 <212> DNA
 <213> B.fragilis

<400> 2511
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 gacgaaacac tgggtgaaata ttacgtaaac gatctatata gcgaaatctc cgtagacgga 180
 ctgcaactac aagaaaaccg cagcgacaat tccgtctcgg cacagcgtga taaacaccgt 240
 gcaagctggg ttaagttcaa ctatgacatg gtcagtgcct ccgat 285

<210> 2512
 <211> 330
 <212> DNA
 <213> B.fragilis

<400> 2512
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 ggaaccatgc gtatggttgt actcagagtc gtcttcggac tgaatgccgc cgtattattc 180
 gtgttggcgg ctaccacatt ggtcgaaggg ccatcttcc atgatgtgga gtttccccct 240
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 atggtaattg tcagtttgca caacttctga 330

<210> 2513
 <211> 1296
 <212> DNA
 <213> B.fragilis

<400> 2513
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 aatgccggaa ccggtgaagt aggtgaaaac gtgaatatca aagcaaccga cttcgcgcgt 180
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 atgcaccgcc accacatacc gacagccgcg taccaaagcg tgacagccga taccctgaac 420
 gaaggactgg catttctcga aacacttgaa gtccttatg tgctgaaagc agacggactt 480
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 gagatgctcg gaggtatgtt cggcaatgcc tcggcaaccg ttgttattga agagttcctg 600

agcgggtatcg	aatgttcggt	attcgtagctg	acagatggcg	accactataa	ggtgctgccc	660
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gacaaggccg	acgcactggc	acaatgctac	aaagtggccg	acatgattga	cttcaaagac	1260
aagaattatc	gccgcgacat	cggcttcgat	ttataa			1296

<210> 2514

<211> 741

<212> DNA

<213> B.fragilis

<400> 2514

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aaaaccggca	aggggcaata	tggatgaaggc	gaccggtttc	ttggaatagt	ggttcctgca	180
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caatccgaat	ggcatgaatg	tcgtttgtgt	gcattactga	tgatgggtga	gcggtttaag	300
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<210> 2515

<211> 198

<212> DNA

<213> B.fragilis

<400> 2515

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tttgtggcag	gccagaaaag	cccgttcttt	aagggtgtcag	gcttactggc	ttctgacttc	180
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<210> 2516

<211> 207

<212> DNA

<213> B.fragilis

<400> 2516

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agtgatatag	aggaaaatcg	tgaaatgtca	aattggacag	cttgtccggt	cagagtatta	180
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<210> 2517

<211> 1845

<212> DNA

<213> B.fragilis

<400> 2517

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actatcatct	atgtagggaa	agccaaaaac	ctgaagcgga	gagtctactc	ctatttcagc	180
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aacgaatatt	ttccaagagt	attcaagacc	aggcgattta	tccgaaacgg	ctcttcgtac	420
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<210> 2518

<211> 867

<212> DNA

<213> B.fragilis

<400> 2518

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<210> 2519

<211> 1593

<212> DNA

<213> B.fragilis

<400> 2519

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<210> 2520

<211> 1356

<212> DNA

<213> B.fragilis

<400> 2520

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<211> 480

<212> DNA

<213> B.fragilis

<400> 2521

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<210> 2522

<211> 1226

<212> DNA

<213> B.fragilis

<400> 2522

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<210> 2523

<211> 762

<212> DNA

<213> B.fragilis

<400> 2523

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<210> 2524

<211> 738

<212> DNA

<213> B.fragilis

<400> 2524

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<211> 3360

<212> DNA

<213> B.fragilis

<400> 2525

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<210> 2526

<211> 918

<212> DNA

<213> B.fragilis

<400> 2526

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cctggttatg	taaagaagaa	tatggaaaga	atcattgaat	atacggccga	cggaagtgcc	180
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cttgaaatcg	gtttcgggaac	ggggctgaac	gcattgctca	cactgattga	agcggaaaga	360
tcgggcagac	agatccatta	tacgggcatac	gagctttacc	cgtgccatg	ggaaacggta	420
gagaaactga	gatataacga	ccgaccggga	ggggatgggtg	aacaacgatt	aacgaccggc	480
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cggatcactc	cgcatttcac	cctgaggaag	atacagggag	acttcacaat	catggaccgt	600
tcattcattga	tcactgaccg	tacatcgtta	ttctccctcc	tttatttcga	tgccttcgca	660
ccggagaaac	aacctgagat	gtggacgcaa	gaactattcg	atgagctgta	cgttatgatg	720
gaagaagaag	gaatactgac	cacttattgc	gctaaaggag	tggttaagaag	gatgttgcaa	780
gcggcaggat	tcactggtga	acgtctgccc	ggacctccgg	gaggcaaaag	ggagatactg	840
agggcaaaga	agagatccca	ggattctccg	gccgtaacgc	aatgtaacgc	gcaaccacaca	900
ttaaaacaga	aaggataa					918

<210> 2527

<211> 972

<212> DNA

<213> B.fragilis

<400> 2527

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ctcctgctcc	tttccgcctg	ttccggccgc	gggaaaggcg	atgcgggaga	gcggatcatc	180
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gccgaccgtg	ccttcacat	ctaccatccg	gcactctcct	acttcgccc	cgactacgga	720
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cgccgaaacg	ccgaaatcat	cgcgaagcag	accggcacc	gggtgatctc	catcaatccc	900
ctttcgtacg	actgggaaga	agagatgctg	aatgtggcga	gaagcctccg	tggtgaaccc	960
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<210> 2528

<211> 732

<212> DNA

<213> B. fragilis

<400> 2528

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cctagtttac	aggaagactt	ctacgtagac	agcctgacaa	ccggagcaag	caaagaaacc	180
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attcatttcc	tgcattgatg	aggcgaccgc	atttcattca	gcattctcct	acccttttta	300
gtggccgaat	atgatccgaa	agaactggaa	gaaaagatac	gcgaacgttt	tttcggcata	360
gaacttttca	tccgcaaatg	caacaatctg	caccatttca	tcaattgtat	aaaagccgat	420
caaaccatca	aaataggaga	agaggagcta	aaaagagggg	tgcttgcatg	ggatatggga	480
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gtaggaaaaa	gtttcttatt	aggacaggca	atggaaagcta	ctgaaaaaag	gaagcaggaa	660
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<210> 2529

<211> 879

<212> DNA

<213> B. fragilis

<400> 2529

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gactctatcc	gcaagggagt	tgagtttaaa	ggagctaata	tctggattct	gatttttgcc	180
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ttcgagttga	tgaagcgttc	cctgaagagc	ttcctgatta	caactgcatt	cagtgtcacg	360
acggcgactg	ttttctttct	tttcaactcc	atcgctgagg	cgagtcgga	actgctggcg	420
cgtacgtcac	cgaccattta	tgacgttttc	atcgactttt	tcggcggaact	tgccggagtg	480
gttgccctct	ctaccaagga	gaaaggaaat	gtaattccgg	gagttgccat	tgccactcgc	540
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gtgcggaaat	acatcgtatt	gatcgtaata	ctgaccatgt	gtccggctat	ttacctgact	780
atgggaatta	tccgaagcac	cttcttcgaa	gcggcgagcga	atcgtttcgt	ttccgaacag	840
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<210> 2530
 <211> 432
 <212> DNA
 <213> B.fragilis

<400> 2530
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 gaaatcgccct atattttctg ttcggacgaa aaaatattgg aagtgaaccg ccaatatctt 180
 caacacgatt actatacaga tatcatcact tttgactatt gcgagggcaa tcgtctttca 240
 ggtgatttat tcattagcct ggaaacagtg aagactaact cggaacagtt caacactcct 300
 tatgaagaag aactccaccg gacaattatt cacgggtatac tccacctttg cggaatcaac 360
 gataagggtc ctgggagaacg tgaaattatg gaagctgcag agaataaggc actagctatg 420
 agaaagcagt aa 432

<210> 2531
 <211> 363
 <212> DNA
 <213> B.fragilis

<400> 2531
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 gatctgattc cgggtggagc tacctaccgt tctgccgaga atatatccgg cctgcaatgg 180
 tggggtgacc aatgtatcaa accgggaata gaagcagtg tcatgataaa ccctaaaaac 240
 ggaaaagaaa caccgctcac caccgcgaac atagtaaaca aggcgttga agccggaaat 300
 cacggtaagt tgcaacactt ctacaatgcc agtttcccat ggccaaagaa aaccctatgc 360
 tga 363

<210> 2532
 <211> 1230
 <212> DNA
 <213> B.fragilis

<400> 2532
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 gagaatgacg aagaaatcat tttgaataat agcgatttag aggatgtatc tgagtataaa 120
 agagccgaag acttgatatg tcaattcagt gagagaatag ataaggagaa aggtggtagc 180
 agaagtagta cttacaaaat tatattatct ttagccggtg agaaatctgt tgttataccg 240
 aaaatagcta caagaactgg tgagataagt acggatagtg tgaatatgtt catatttgat 300
 acggaaaagg atggacgatt tggatttgca atagccaccg gaaaagctga agtaggaaga 360
 gtttatgctt atgtggaaaa tggaaatctg tcagatacta tagaaaatga aggtatggct 420
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 caacattatc cttataatgc acaaatgccg acaaacggaa agtgctctat aagttattat 600
 tatgcggtt gtattcctat tgcagttgct caggcgatta cttattatag aaaatgcccg 660
 gttgcttatg attgggatgc atttactgta aatactggaa tatacgatac taatctaata 720
 gctcctgtat ctcaatttgt aaaaaagggtg gcggatggta ttaaggctcg ttataaatgt 780
 gatggaacag gagcaaaaaa tttaggttca accaatgact tcttgaaagg atggggatat 840
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<210> 2533

<211> 1218
 <212> DNA
 <213> B.fragilis

<400> 2533

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attgtcgtcc	aggctgaggt	accagggtgag	gtattctaca	gacttgtttg	ccagttcatc	180
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tgctccgttc	tgtacatcgt	agggcacgtt	gaaagccgga	atcatctttt	cggcgtattc	300
cagtgcgtgcc	agcgcctttgt	ccttttttgc	ttctttcatc	agctgggtga	tcagttgggc	360
aaagatgcgg	cgatgggtgt	agcacatgcg	catcgtattc	tcgtcgatgt	agatgccggg	420
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ccagtcggtc	tggaggtagc	tcaggttaca	ggtacgtgcg	tcggtgcgga	agctttcggg	1140
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<210> 2534
 <211> 423
 <212> DNA
 <213> B.fragilis

<400> 2534

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cttatttata	actccgaaga	agaaaacggc	atgttaatat	gacaaaccgt	ttataagaaa	180
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ctggttcgct	atacgtagca	aggcaaaacc	attaccacaa	actattataa	atggaataac	360
cgaaaaagtg	aattttatact	ggctccggag	atgaccgtta	caatggataa	ccctaatacta	420
taa						423

<210> 2535
 <211> 909
 <212> DNA
 <213> B.fragilis

<400> 2535

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gacacgcaac	tgaatgatgc	tgatgtacag	gttcagggtt	ctgcattaat	cgagaaaaag	120
gttcccga	acaatacggg	agaagtgaag	aaattccttt	tcaactgtat	tgacctgacc	180
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aaagtaatcc	tcgaaacagg	cgcttttaaag	actgcctcta	acattaaaaa	agcctctatc	600
ctatccatgt	attccggagc	cgattttcatc	aaaacatcca	ccggaaaaaca	gcaaccggca	660

gcaacccccg	aagcagctta	tgtaatgtgc	caagctatca	aagagtacta	cgaacagaca	720
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<210> 2536

<211> 1884

<212> DNA

<213> B.fragilis

<400> 2536

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gactaccgtg	aggttatcag	cacacgtcca	ttgccaaagg	aaggtgccaa	tagagattat	180
caccctgaaa	cgggacatgt	agcctatacc	ataggcaaca	atctgtatgt	ggacgatcgg	240
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gatcaaagta	tggtagccca	atatcccctg	gtcgatgtca	cagctcccat	tgccgaagtc	420
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accctctcgt	ttatgaaagc	gtgcacatgc	gcccgcacgt	atccggacct	cttcatctac	1800
ccgtgccaca	agcacaatgt	gtcggggccg	gaccgtgtac	atctgcatga	aaagataacc	1860
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<210> 2537

<211> 399

<212> DNA

<213> B.fragilis

<400> 2537

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ggagaggatg	taatggctat	tatgaaagat	agacataagg	tacatttgat	tactcataag	180
gaggcaaatc	tgcaagaag	tactctactt	gttgcttggt	gttatattga	agagagccaa	240
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acagggcaga	ctgttttttga	tgatactata	acaggtactt	ctttctctat	ctttttggaa	360
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<210> 2538
 <211> 456
 <212> DNA
 <213> B.fragilis

<400> 2538
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 acattagaag aagcacagaa agccgttgat gaatggatac acaaatacgg tgtacgttat 180
 ttcagcgaat tgaccaacat ggcagttctc accgaagaag taggcgaact ggcacgtatc 240
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<210> 2539
 <211> 1134
 <212> DNA
 <213> B.fragilis

<400> 2539
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